Canon

EOS 50D

Exif Print DPOF PictBridge HI-SPEED USB HDMI

E

INSTRUCTION MANUAL

Downloaded from ManualsCamera.com Manuals

Canon EOS 50D

INSTRUCTION MANUAL E

Thank you for purchasing a Canon product.

The EOS 50D is a high-performance, digital SLR camera featuring a fine-detail CMOS sensor with 15.10 effective megapixels, DIGIC 4, high-precision and high-speed 9-point AF (all cross-type points), high-speed 6.3 fps continuous shooting, and Live View shooting.
The camera is highly responsive to any shooting situation at anytime, provides many features for demanding shoots, and expands shooting possibilities with system accessories.

Take a Few Test Shots to Familiarize Yourself with the Camera

With a digital camera, you can immediately view the image you have captured. While reading this manual, take a few test shots and see how they come out. You can then better understand the camera.
To avoid botched pictures and accidents, read the Safety Warnings (p.212,213) and Handling Precautions (p.12,13).

Testing the Camera Before Using and Liability

After shooting, playback and check whether the image has been properly recorded. If the camera or memory card is faulty and the images cannot be recorded or downloaded to a personal computer, Canon cannot be held liable for any loss or inconvenience caused.

Copyrights

Copyright laws in your country may prohibit the use of your recorded images of people and certain subjects for anything but private enjoyment. Also be aware that certain public performances, exhibitions, etc., may prohibit photography even for private enjoyment.

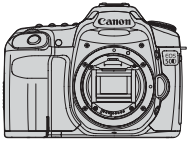
CF Card

In this manual, “card” refers to the CF card. **The CF card (for recording images) is not included.** Please purchase it separately.

Downloaded from ManualsCamera.com Manuals

Item Check List

Before starting, check that all the following items have been included with your camera. If anything is missing, contact your dealer.



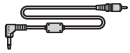
Camera
(with eyecup and body cap)

Battery Pack BP-511A
(with protective cover)

Battery Charger CG-580/CB-5L*

Wide Strap EW-EOS50D

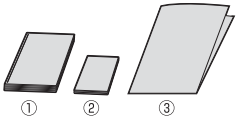
Interface Cable IFC-200U



Video Cable VC-100

EOS DIGITAL Solution Disk
(Software)

Software Instruction Manual



(1) **Instruction Manual** (this booklet)
(2) **Pocket Guide**
Quick start guide to shooting.
(3) **CD-ROM Guide**
Guide to the bundled software (EOS DIGITAL Solution Disk) and Software Instruction Manuals.

* Battery Charger CG-580 or CB-5L is provided. (The CB-5L comes with a power cord.)

- If you purchased a Lens Kit, check that the lens is included.
- Depending on the Lens Kit type, the lens instruction manual might also be included.
- Be careful not to lose any of the above items.

Downloaded from ManualsCamera.com Manuals

Conventions Used in this Manual

Icons in this Manual

: Indicates the Main Dial.

: Indicates the Quick Control Dial.

: Indicates the Multi-controller.

: Indicates the setting button.

: Indicates that the respective function remains active for 4 sec., 6 sec., or 16 sec. respectively after you let go of the button.

* In this manual, the icons and markings indicating the camera's buttons, dials, and settings correspond to the icons and markings on the camera and on the LCD monitor.

MENU : Indicates a function which can be changed by pressing the <MENU> button and changing the setting.

☆ : When shown on the upper right of the page, it indicates that the function is available only in the Creative Zone modes (p.20).

(p.**) : Reference page numbers for more information.

: Tip or advice for better shooting.

? : Problem-solving advice.

: Warning to prevent shooting problems.

: Supplemental information.

Basic Assumptions

- All operations explained in this manual assume that the power switch is already set to <ON> or <⮠> (p.27).
- <◌> operations explained in this manual assume that the power switch is already set to <⮠>.
- It is assumed that all the menu settings and Custom Functions are set to the default.
- For explanatory purposes, the instructions show the camera attached with an EF-S17-85mm f/4-5.6 IS USM lens.

Downloaded from ManualsCamera.com Manuals

Chapters

For first-time users, chapters 1 and 2 explain the camera's basic operations and shooting procedures.

	Introduction Camera basics.	2
1	**Getting Started**	23
2	**Basic Shooting** Fully automatic shooting for different subjects.	47
3	**Image Settings**	59
4	**Setting the AF and Drive Modes**	83
5	**Advanced Operations** Shooting features for specific types of subjects.	91
6	**Live View Shooting** Shoot while viewing the LCD monitor.	115
7	**Image Playback**	131
8	**Sensor Cleaning**	147
9	**Printing Images and Transferring Images to a Computer**	153
10	**Customizing the Camera**	171
11	**Reference**	187

Downloaded from ManualsCamera.com Manuals

Contents

Introduction

Item Check List ... 3
Conventions Used in this Manual ... 4
Chapters ... 5
Index to Features ... 10
Handling Precautions ... 12
Quick Start Guide ... 14
Nomenclature ... 16

1 Getting Started 23

Recharging the Battery ... 24
Installing and Removing the Battery ... 26
Turning on the Power ... 27
Installing and Removing the CF Card ... 29
Attaching and Detaching a Lens ... 31
About the Lens Image Stabilizer ... 33
Basic Operation ... 34
Using the Quick Control Screen ... 38
Menu Operations ... 40
Before You Start ... 42
- Setting the Interface Language ... 42
- Setting the Date and Time ... 42
- Formatting the Card ... 43
- Set the Power-off Time/Auto Power Off ... 44
- Reverting the Camera to the Default Settings ... 45

2 Basic Shooting 47

Fully Automatic Shooting ... 48
Full Auto Techniques ... 50
Shooting Portraits ... 51
Shooting Landscapes ... 52
Shooting Close-ups ... 53
Shooting Moving Subjects ... 54
Shooting Portraits at Night ... 55
Disabling Flash ... 56
Creative Auto Shooting ... 57

Downloaded from ManualsCamera.com Manuals

3 Image Settings 59

Setting the Image-recording Quality....60
ISO: Setting the ISO Speed....63
Selecting a Picture Style....65
Customizing a Picture Style....67
Registering a Picture Style....69
WB: Setting the White Balance....71
Custom White Balance....72
Setting the Color Temperature....73
White Balance Correction....74
Lens Peripheral Illumination Correction....76
Creating and Selecting a Folder....78
File Numbering Methods....80
Setting the Color Space....82

4 Setting the AF and Drive Modes 83

AF: Selecting the AF Mode....84
Selecting the AF Point....86
When Autofocus Fails....88
Manual Focusing....88
Selecting the Drive Mode....89
Self-timer Operation....90

5 Advanced Operations 91

P: Program AE....92
Tv: Shutter-Priority AE....94
Av: Aperture-Priority AE....96
Depth-of-Field Preview....97
M: Manual Exposure....98
A-DEP: Automatic Depth-of-Field AE....99
Selecting the Metering Mode....100
Setting Exposure Compensation....101
Auto Exposure Bracketing (AEB)....102
AE Lock....103
Bulb Exposures....104
Mirror Lockup....106

Downloaded from ManualsCamera.com Manuals

Using the Built-in Flash 107
Flash Control 111
External Speedlites 113

6 Live View Shooting 115

Preparing for Live View Shooting 116
Shooting 118
Using AF to Focus 121
Focusing Manually 127
Silent Shooting 128

7 Image Playback 131

Image Playback 132
INFO. Shooting Information Display 133
Searching for Images Quickly 135
Magnified View 137
Rotating the Image 138
Auto Playback (Slide Show) 139
Viewing the Images on TV 141
Protecting Images 143
Erasing Images 144
Changing Image Playback Settings 145
Adjusting the LCD Monitor Brightness 145
Setting the Image Review Time 145
Auto Rotate of Vertical Images 146

8 Sensor Cleaning 147

Automatic Sensor Cleaning 148
Appending Dust Delete Data 149
Manual Sensor Cleaning 151

Downloaded from ManualsCamera.com Manuals

9 Printing Images and Transferring Images to a Computer 153

Preparing to Print 154
Printing 156
Trimming the Image 161
Digital Print Order Format (DPOF) 163
Direct Printing with DPOF 166
Transferring Images to a Personal Computer 167

10 Customizing the Camera 171

Setting Custom Functions 172
Custom Functions 173
Custom Function Settings 174
C.Fn I : Exposure 174
C.Fn II : Image 176
C.Fn III : Autofocus/Drive 178
C.Fn IV : Operation/Others 181
Registering My Menu 185
Register Camera User Settings 186

11 Reference 187

INFO. Checking Camera Settings 188
Using a Household Power Outlet 190
Replacing the Date/Time Battery 191
Using the Battery Grip 192
Menu Settings 193
Function Availability Table 196
Troubleshooting Guide 198
Error Codes 201
System Map 202
Specifications 204
Index 223

Downloaded from ManualsCamera.com Manuals

Index to Features

Power

- **Battery**
  - Charging → **p.24**
  - Battery check → **p.28**
- **Power outlet** → **p.190**
- **Auto power off** → **p.44**

Lens

- **Attaching/Detaching** → **p.31**
- **Zoom** → **p.32**
- **Image Stabilizer** → **p.33**

Basic Settings (Menu Functions)

- **Language** → **p.42**
- **Date/Time** → **p.42**
- **LCD brightness adjustment** → **p.145**
- **Beeper** → **p.193**
- **Shoot w/o card** → **p.29**

Recording Images

- **Format** → **p.43**
- **Create/select a folder** → **p.78**
- **File No.** → **p.80**

Image Quality

- **Image-recording quality** → **p.60**
- **ISO speed** → **p.63**
- **Picture Style** → **p.65**
- **Color space** → **p.82**
- **Image improvement features**
  - Lens peripheral illumination correction → **p.76**
  - Auto Lighting Optimizer → **p.177**
  - Noise reduction for long exposures → **p.176**
  - Noise reduction for high ISO → **p.176**
  - Highlight tone priority → **p.177**

White balance

- **White balance selection** → **p.71**
- **Custom WB** → **p.72**
- **Color temperature setting** → **p.73**
- **White balance correction** → **p.74**
- **WB bracketing** → **p.75**

AF

- **AF mode** → **p.84**
- **AF point selection** → **p.86**
- **Manual focusing** → **p.88**

Metering

- **Metering mode** → **p.100**

Drive

- **Drive modes** → **p.89**
- **Maximum burst** → **p.62**

Downloaded from ManualsCamera.com Manuals

Shooting

- Creative Auto → p.57
- Quick Control screen → p.38
- Self-timer → p.90
- Program AE → p.92
- Shutter-priority AE → p.94
- Aperture-priority AE → p.96
- Manual exposure → p.98
- Bulb → p.104
- Mirror lockup → p.106

Exposure adjustment

- Exposure compensation → p.101
- AEB → p.102
- AE lock → p.103
- Exposure level increments → p.174

Flash

- Built-in flash → p.107
  - Flash exposure compensation → p.109
  - FE lock → p.110
- External flash → p.113
- Flash control → p.111

Live View shooting

- Live View shooting → p.116
  - AF → p.121
  - Exposure simulation → p.117
  - Grid → p.119
  - Silent shooting → p.128

Image playback

- Image review time → p.145
- Single image playback → p.132
  - Shooting information display → p.133
- Index display → p.135
- Image browsing (Jump display) → p.136
- Magnified view → p.137
- Manual image rotate → p.138
- Auto image rotate → p.146
- Auto playback → p.139
- Viewing the images on TV → p.141
- Protect → p.143
- Erase → p.144

Customization

- Custom Function (C.Fn) → p.171
- My Menu → p.185
- Camera user setting registration → p.186

Sensor cleaning/ Dust reduction

- Sensor cleaning → p.147
- Add Dust Delete Data → p.149

Viewfinder

- Dioptric adjustment → p.34
- Changing the focusing screen → p.183

Downloaded from ManualsCamera.com Manuals

Handling Precautions

Camera Care

- This camera is a precision instrument. Do not drop it or subject it to physical shock.
- The camera is not waterproof and cannot be used underwater. If you accidentally drop the camera into water, promptly consult your nearest Canon Service Center. Wipe off any water droplets with a dry cloth. If the camera has been exposed to salty air, wipe it with a well-wrung wet cloth.
- Never leave the camera near anything having a strong magnetic field such as a magnet or electric motor. Also avoid using or leaving the camera near anything emitting strong radio waves such as a large antenna. Strong magnetic fields can cause camera misoperation or destroy image data.
- Do not leave the camera in excessive heat such as in a car in direct sunlight. High temperatures can cause the camera to malfunction.
- The camera contains precision electronic circuitry. Never attempt to disassemble the camera yourself.
- Use a blower to blow away dust on the lens, viewfinder, reflex mirror, and focusing screen. Do not use cleaners that contain organic solvents to clean the camera body or lens. For stubborn dirt, take the camera to the nearest Canon Service Center.
- Do not touch the camera's electrical contacts with your fingers. This is to prevent the contacts from corroding. Corroded contacts can cause camera misoperation.
- If the camera is suddenly brought in from the cold into a warm room, condensation may form on the camera and internal parts. To prevent condensation, first put the camera in a sealed plastic bag and let it adjust to the warmer temperature before taking it out of the bag.
- If condensation forms on the camera, do not use the camera. This is to avoid damaging the camera. If there is condensation, remove the lens, card and battery from the camera, and wait until the condensation has evaporated before using the camera.
- If the camera will not be used for an extended period, remove the battery and store the camera in a cool, dry, well-ventilated location. Even while the camera is in storage, press the shutter button a few times once in a while to check that the camera is still working.
- Avoid storing the camera where there are corrosive chemicals such as a darkroom or chemical lab.
- If the camera has not been used for an extended period, test all its functions before using it. If you have not used the camera for some time or if there is an important shoot coming up, have the camera checked by your Canon dealer or check the camera yourself and make sure it is working properly.

Downloaded from ManualsCamera.com Manuals

LCD Panel and LCD Monitor

- Although the LCD monitor is manufactured with very high precision technology with over 99.99% effective pixels, there might be a few dead pixels among the remaining 0.01% or less pixels. Dead pixels displaying only black or red, etc., are not a malfunction. They do not affect the images recorded.
- If the LCD monitor is left on for a prolonged period, screen burn-in may occur where you see remnants of what was displayed. However, this is only temporary and will disappear when the camera is left unused for a few days.
- In low or high temperatures, the LCD monitor display may seem slow or it might look black. It will return to normal at room temperature.

Cards

To protect the card and its recorded data, note the following:

- Do not drop, bend, or wet the card. Do not subject to excessive force, physical shock, and vibration.
- Do not store or use the card near anything having a strong magnetic field such as a TV set, speakers, or magnet. Also avoid places prone to having static electricity.
- Do not leave the card in direct sunlight or near a heat source.
- Store the card in a case.
- Do not store the card in hot, dusty, or humid locations.

Lens Electrical Contacts

After detaching the lens from the camera, attach the lens caps or put down the lens with the rear end up to avoid scratching the lens surface and electrical contacts.

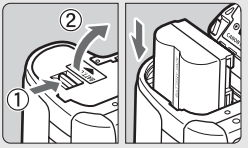
Cautions During Prolonged Use

When you shoot continuously for a prolonged period or use Live View shooting for a long period, the camera may become hot. Although this is not a malfunction, holding the hot camera for a long period can cause slight skin burns.

Downloaded from ManualsCamera.com Manuals

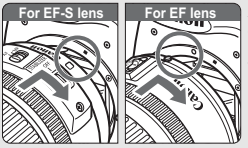
Quick Start Guide

1



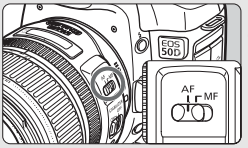
Insert the battery. (p.26)
To recharge the battery, see page 24.

2



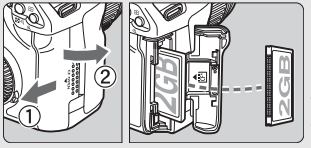
Attach the lens. (p.31)
When attaching an EF-S lens, align it with the white index on the camera. For other lenses, align it with the red index.

3



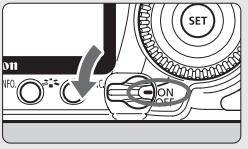
Set the lens focus mode switch to <AF>. (p.31)

4



Open the slot cover and insert a card. (p.29)
Face the label side toward you and insert the end with the small holes into the camera.

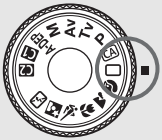
5



Set the power switch to <ON>. (p.27)

Downloaded from ManualsCamera.com Manuals

6



Set the Mode Dial to <🖵> (Full Auto). (p.48)

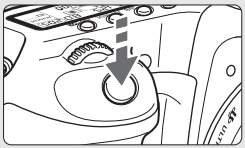
All the necessary camera settings will be set automatically.

7

Focus the subject. (p.35)

Look through the viewfinder and aim the viewfinder center over the subject. Press the shutter button halfway, and the camera will focus the subject.
If necessary, the built-in flash will pop-up automatically.

8



Take the picture. (p.35)

Press the shutter button completely to take the picture.

9

Review the picture. (p.145)

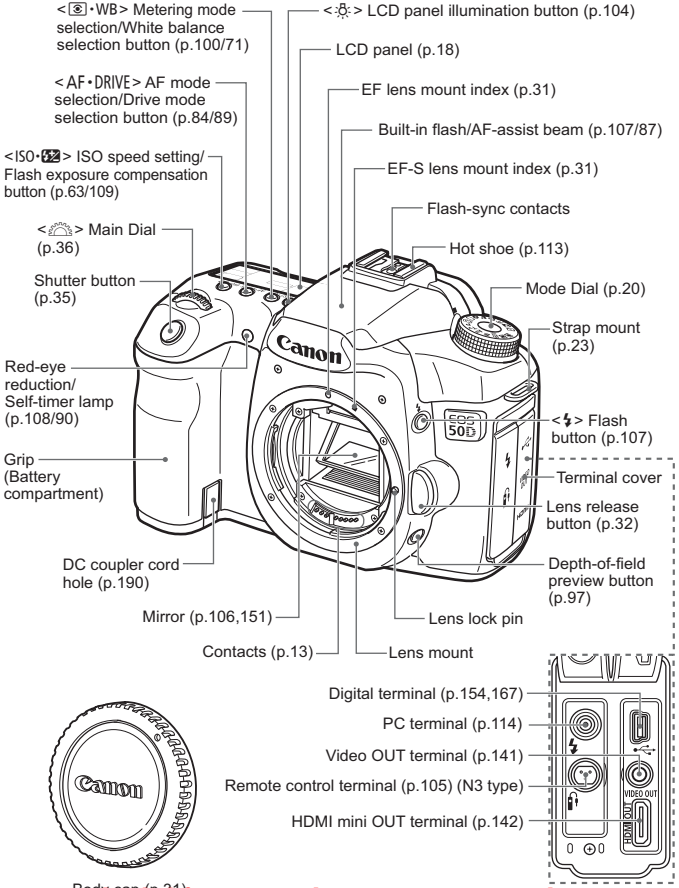
The captured image will be displayed for about 2 sec. on the LCD monitor. To display the image again, press the <▶> button (p.132).

- To view the images captured so far, see “Image Playback” (p.132).
- To delete an image, see “Erasing Images” (p.144).

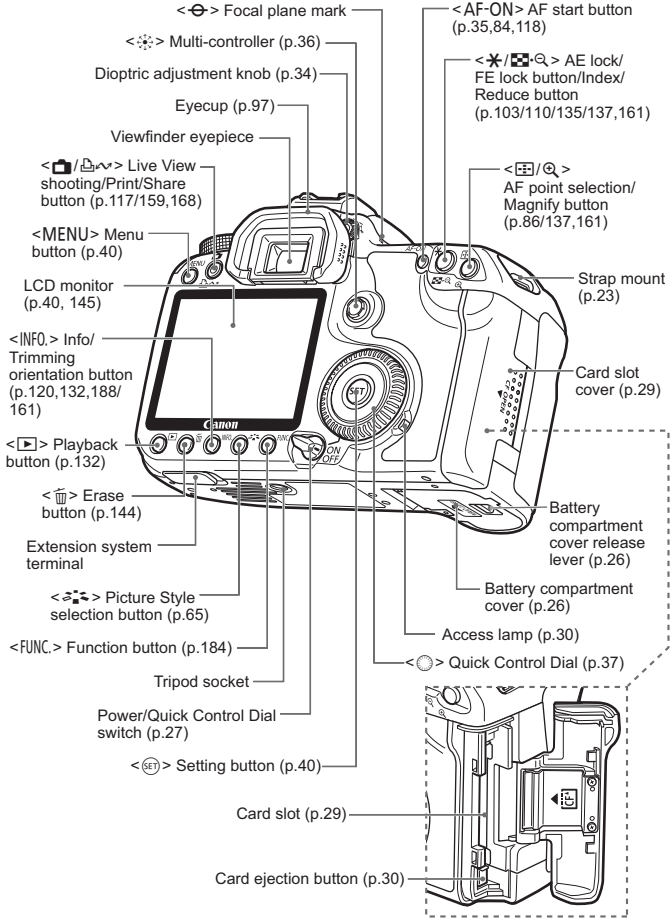
Downloaded from ManualsCamera.com Manuals

Nomenclature

For detailed information, reference page numbers are provided in parentheses (p.**).

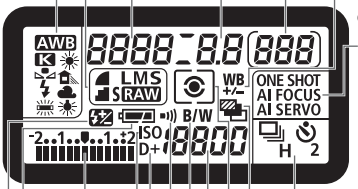


Downloaded from ManualsCamera.com Manuals



Downloaded from ManualsCamera.com Manuals

LCD Panel



Shutter speed
Busy (**buSY**)
Built-in flash recycling (**buSY**)
Image-recording quality (p.60)
- **L** Large/Fine
- **L** Large/Normal
- **M** Medium/Fine
- **M** Medium/Normal
- **S** Small/Fine
- **S** Small/Normal
- **RAW** RAW
- **SRAW** Small RAW

White balance (p.71)
- **AWB** Auto
- Daylight
- Shade
- Cloudy
- Tungsten light
- White fluorescent light
- Flash
- Custom
- **K** Color temperature

Flash exposure compensation (p.109)
Battery check (p.28)
Exposure level indicator
Exposure compensation amount (p.101)
AEB range (p.102)
Flash exposure compensation amount (p.109)
Card writing status
<**ISO**> ISO speed (p.63)
<**D+**> Highlight tone priority (p.177)
<))> Beeper (p.193)

AF point selection ([- ⋮⋮⋮ -])
Card full warning (**FuLL CF**)
Card error warning (**Err CF**)
No card warning (**no CF**)
Error code (**Err**)
Cleaning image sensor (**CLEA n**)
Aperture
Shots remaining
Shots remaining during WB bracketing
Self-timer countdown
Bulb exposure time
White balance correction (p.74)
AF mode (p.84)
- **ONE SHOT** One-Shot AF
- **AI FOCUS** AI Focus AF
- **AI SERVO** AI Servo AF

Drive mode (p.89)
- Single shooting
- H High-speed continuous shooting
- Low-speed continuous shooting
- Self-timer (10 sec.)
- 2 Self-timer (2 sec.)

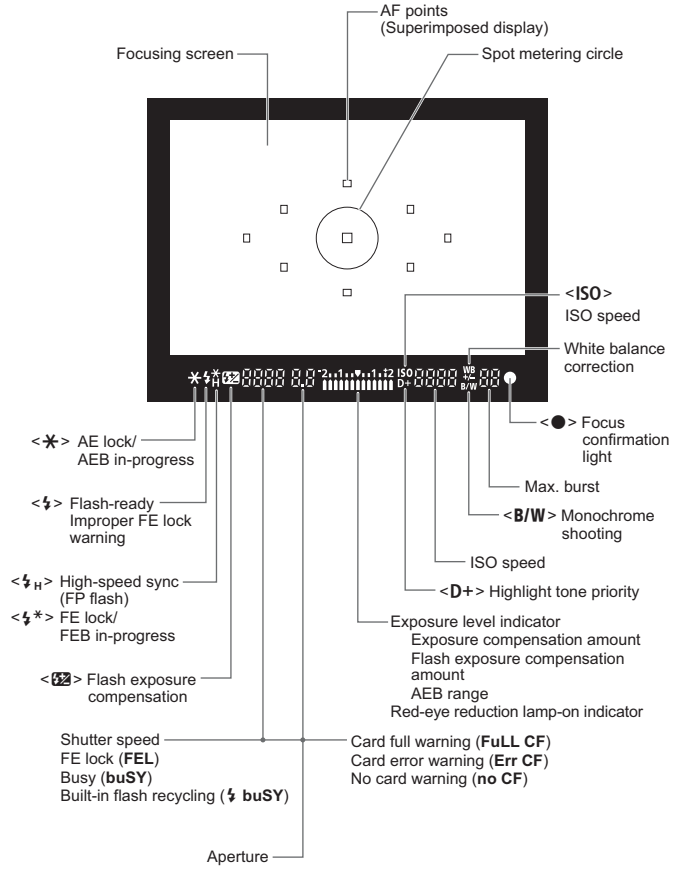
<> AEB (p.102)
Metering mode (p.100)
- Evaluative metering
- Partial metering
- Spot metering
- Center-weighted average metering

ISO speed (p.63)
<**B/W**> Monochrome shooting (p.66)

The display will show only the settings currently applied.

Downloaded from ManualsCamera.com Manuals

Viewfinder Information



The display will show only the settings currently applied.

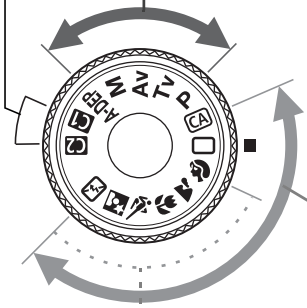
Downloaded from ManualsCamera.com Manuals

Mode Dial

The Mode Dial has the Basic Zone modes and Creative Zone modes.

Camera User Settings

Most camera settings can be registered under C1 or C2 (p.186).



Creative Zone

These modes give you more control over the result.

- **P** : Program AE (p.92)
- **Tv** : Shutter-priority AE (p.94)
- **Av** : Aperture-priority AE (p.96)
- **M** : Manual exposure (p.98)
- **A-DEP** : Automatic depth-of-field AE (p.99)

Basic Zone

All you do is press the shutter button. Fully automatic shooting for specific kinds of subjects.

- : Full Auto (p.48)
- CA : Creative Auto (p.57)

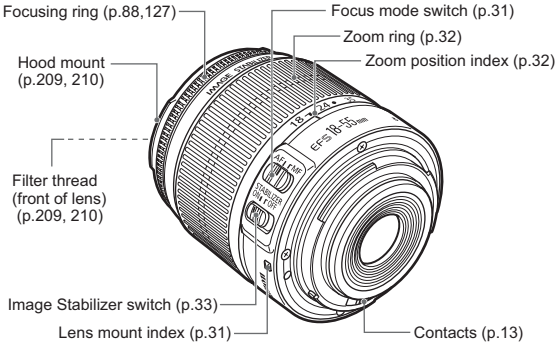
Image Zone

- : Portrait (p.51)
- : Landscape (p.52)
- : Close-up (p.53)
- : Sports (p.54)
- : Night Portrait (p.55)
- : Flash Off (p.56)

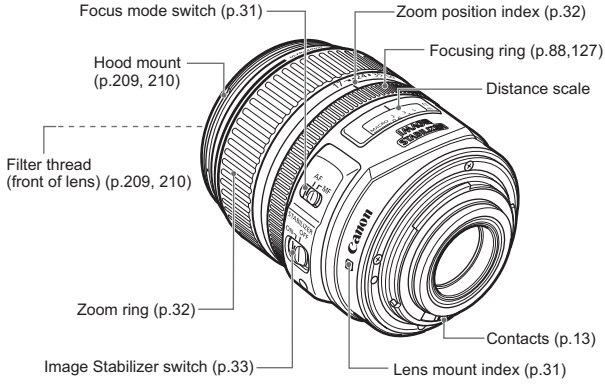
Downloaded from ManualsCamera.com Manuals

Nomenclature for Kit Lenses

EF-S18-200mm f/3.5-5.6 IS and EF-S18-55mm f/3.5-5.6 IS

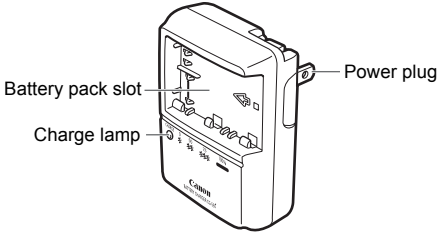


EF-S17-85mm f/4-5.6 IS USM and EF28-135mm f/3.5-5.6 IS USM



Downloaded from ManualsCamera.com Manuals

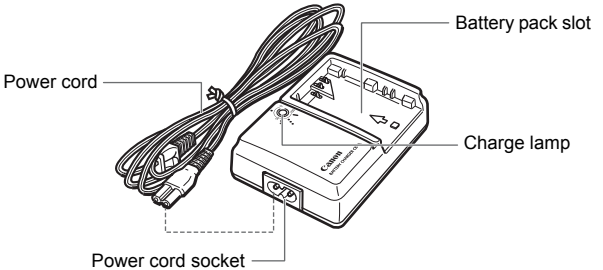
Battery Charger CG-580
Charger for Battery Pack BP-511A (p.24).



This power unit is intended to be correctly orientated in a vertical or floor mount position.

IMPORTANT SAFETY INSTRUCTIONS-SAVE THESE INSTRUCTIONS. DANGER-TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS.
For connection to a supply not in the U.S.A., use an attachment plug adapter of the proper configuration for the power outlet.

Battery Charger CB-5L
Charger for Battery Pack BP-511A (p.24).

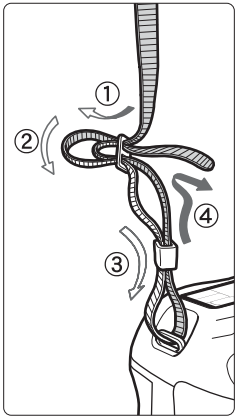


Downloaded from ManualsCamera.com Manuals

1

Getting Started

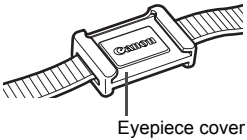
This chapter explains preparatory steps and basic camera operations.



Attaching the Strap

Pass the end of the strap through the camera's strap mount eyelet from the bottom. Then pass it through the strap's buckle as shown in the illustration. Pull the strap to take up any slack and make sure the strap will not loosen from the buckle.

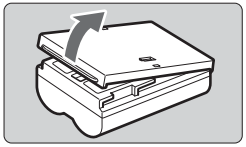
- The eyepiece cover is also attached to the strap (p.105).



Eyepiece cover

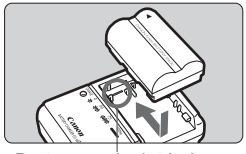
Downloaded from ManualsCamera.com Manuals

Recharging the Battery



1 Remove the protective cover.

- When you remove the battery from the camera, be sure to reattach the cover to protect it against short circuiting.

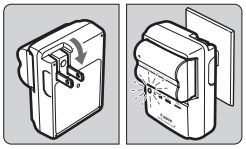


Battery pack slot index

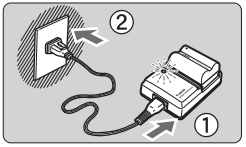
2 Attach the battery.

- Align the battery's front edge with the battery charger's index line. While pressing down the battery, slide it in the direction of the arrow.
- To detach the battery, follow the above procedure in reverse.

CG-580



CB-5L



3 Recharge the battery.

For CG-580

- As shown by the arrow, flip out the battery charger's prongs and insert the prongs into a power outlet.

For CB-5L

- Connect the power cord to the charger and insert the plug into the power outlet.

▶ Recharging starts automatically and the charge lamp starts blinking in red.

- **It takes about 100 min. to fully recharge a completely exhausted battery.**
  The time required to recharge the battery depends on the ambient temperature and battery's charge level.

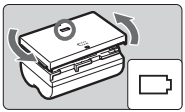
Recharge Level	Charge Lamp
0 - 50%	Blinks once per second
50 - 75%	Blinks twice per second
75 - 90%	Blinks three times per second
90% or higher	Lights on

* The numbers and markings on the battery charger correspond to the table above.

Downloaded from ManualsCamera.com Manuals

Tips for Using the Battery and Charger

- **Recharge the battery on the day before or on the day it is to be used.**
  Even during non-use or storage, a charged battery will gradually discharge and lose its power.
- **After recharging the battery, detach it and unplug the power cord or prongs from the power outlet.**
- **You can attach the cover in a different orientation to indicate whether the battery has been recharged or not.**
  If the battery has been recharged, attach the cover so that the battery-shaped hole < > is aligned over the blue sticker on the battery. If the battery is exhausted, attach the cover in the opposite orientation.



- **When not using the camera, remove the battery.**
  If the battery is left in the camera for a prolonged period, a small amount of power current is released, resulting in excess discharge and shorter battery life. Store the battery with the protective cover attached. Storing the battery after it is fully charged can lower the battery's performance.
- **The battery charger can also be used in foreign countries.**
  The battery charger is compatible with a 100 V AC to 240 V AC 50/60 Hz power source. If necessary, attach a commercially-available plug adapter for the respective country or region. Do not attach any portable voltage transformer to the battery charger. Doing so can damage the battery charger.
- **If the battery becomes exhausted quickly even after being fully charged, the battery has worn out.**
  Purchase a new battery.

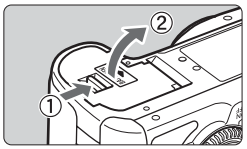
- Do not recharge any battery pack other than Battery Pack BP-511A, BP-514, BP-511, or BP-512.
- Battery Pack BP-511A is dedicated to Canon products only. Using it with an incompatible battery charger or product may result in malfunction or accidents for which Canon cannot be held liable.

Downloaded from ManualsCamera.com Manuals

Installing and Removing the Battery

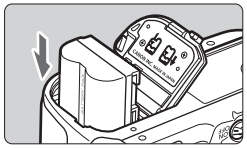
Installing the Battery

Load a fully charged Battery Pack BP-511A into the camera.



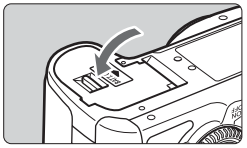
1 Open the battery compartment cover.

- Slide the lever as shown by the arrow and open the cover.



2 Insert the battery.

- Insert the end with the battery contacts.
- Insert the battery until it locks in place.

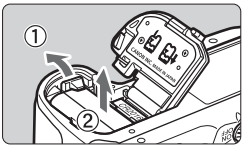


3 Close the cover.

- Press the cover until it snaps shut.

Battery Pack BP-514, BP-511, or BP-512 can also be used.

Removing the Battery



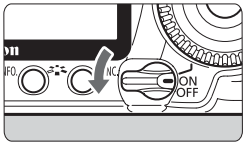
Open the cover and remove the battery.

- Press the battery lock lever as shown by the arrow and remove the battery.
- To prevent short circuiting, be sure to attach the protective cover to the battery.

After opening the battery compartment cover, be careful not to swing it back further. Otherwise, the hinge might break.

Downloaded from ManualsCamera.com Manuals

Turning on the Power



<OFF> : The camera is turned off and does not operate. Set to this position when not using the camera.
<ON> : The camera turns on.
<⚡> : The camera and <◎> operate (p.37).

About the Automatic Self-Cleaning Sensor

- Whenever you set the power switch to <ON/⚡> or <OFF>, the sensor cleaning will be executed automatically. During the sensor cleaning, the LCD monitor will display <✦>. Even during the sensor cleaning, you can still shoot by pressing the shutter button halfway (p.35) to stop the sensor cleaning and take a picture.
- If you turn on/off the power switch <ON/⚡>/<OFF> at a short interval, the <✦> icon might not be displayed. This is normal and not a problem.

About Auto Power Off

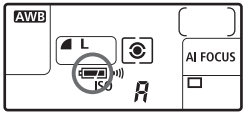
- To save battery power, the camera turns off automatically after about 1 minute of non-operation. To turn on the camera again, just press the shutter button halfway (p.35).
- You can change the auto power-off time with the menu's [**Auto power off**] setting (p.44).

If you set the power switch to <OFF> while an image is being recorded to the card, [**Recording ...**] will be displayed and the power will turn off after the card finishes recording the image.

Downloaded from ManualsCamera.com Manuals

Checking the Battery Level

When the power switch is set to <ON> or <⤾>, the battery level will be indicated in one of four levels:



: Battery level is OK.

: Battery level is slightly down, but adequate power remains.

: Battery will be exhausted soon.

: Battery must be recharged.

Battery Life [Approx. number of shots]

Temperature	Shooting Conditions	
	No Flash	50% Flash Use
At 23°C / 73°F	800	640
At 0°C / 32°F	680	540

- The figures above are based on a fully-charged Battery Pack BP-511A, no Live View shooting, and CIPA (Camera & Imaging Products Association) testing standards.

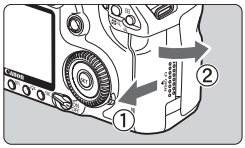
- The actual number of shots may be fewer than indicated above depending on the shooting conditions.
- Pressing the shutter button halfway for long periods or operating only the autofocus can also reduce the number of possible shots.
- The number of possible shots will decrease with more frequent use of the LCD monitor.
- The number of possible shots with the BP-514 is the same as indicated in the table.
- The number of possible shots with the BP-511 or BP-512 will be about 75% of the figures in the table for 23°C / 73°F. At 0°C / 32°F, the figures will be about the same as in the table.
- The lens operation is powered by the camera's battery. Using certain lenses can reduce the number of possible shots.
- Using the Image Stabilizer of the lens will decrease the number of possible shots (shorter battery life).
- For battery life with Live View shooting, see page 119.

Downloaded from ManualsCamera.com Manuals

Installing and Removing the CF Card

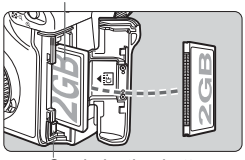
Although the thickness is different between the two types of CF cards, either one can be inserted into the camera. Also, Ultra DMA (UDMA) cards and hard disk-type cards can be used.

Installing the Card



1 Open the cover.

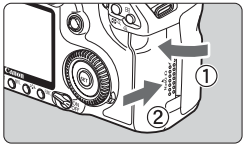
- Slide the cover as shown by the arrow to open it.



2 Insert the card.

- **As shown in the illustration, face the label side toward you and insert the end with the small holes into the camera.**
  If the card is inserted in the wrong way, it may damage the camera.

▶ The card ejection button will stick out.



3 Close the cover.

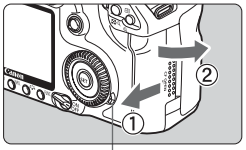
- Close the cover and slide it in the direction shown by the arrow until it snaps shut.

▶ When you set the power switch to <ON> or <⌐>, the number of remaining shots will be displayed on the LCD panel.

- The number of shots remaining depends on the remaining capacity of the card, image-recording quality, ISO speed, etc.
- Setting the [**Shoot w/o card**] menu option to [**Off**] will prevent you from forgetting to install a card (p.193).

Downloaded from ManualsCamera.com Manuals

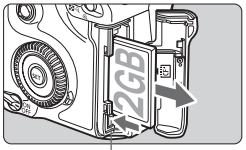
Removing the Card



Access lamp

1 Open the cover.

- Set the power switch to <OFF>.
- **Make sure the access lamp is off, then open the cover.**



Card ejection button

2 Remove the card.

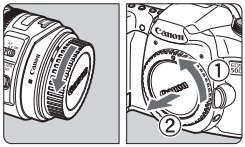
- Press the card ejection button.
- ▶ The card will come out.
- Close the cover.

- **The access lamp lights or blinks while the picture is taken, when data is being transferred to the card and when data is being recorded, read, or erased on the card. While the access lamp is lit or blinking, never do any of the following. Doing so may damage the image data. It may also damage the card or camera.**
  - **• Opening the card slot cover.**
  - **• Removing the battery.**
  - **• Shaking or banging the camera around.**
- If the card already contains recorded images, the image number might not start from 0001 (p.80).
- If a card-related error message is displayed on the LCD monitor, remove and reinstall the card. If the error persists, use a different card. If you can transfer all the images in the card to a personal computer, transfer all the images and then format the card. The card may then return to normal.
- When holding a hard disk-type card, always hold its sides. You may damage the card by holding its flat surfaces. Compared to CF cards, hard disk-type cards are more vulnerable to vibration and physical shock. If you use such a card, be careful not to subject the camera to vibration or physical shock especially while recording or displaying images.

Downloaded from ManualsCamera.com Manuals

Attaching and Detaching a Lens

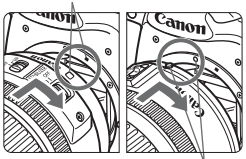
Attaching a Lens



1 Remove the caps.

- Remove the rear lens cap and the body cap by turning them as shown by the arrow.

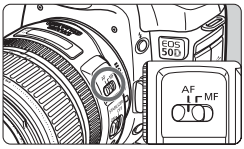
EF-S lens mount index



EF lens mount index

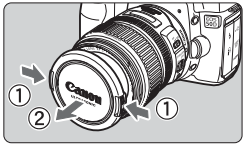
2 Attach the lens.

- Align the EF-S lens with the camera's white EF-S lens mount index and turn the lens as shown by the arrow until it clicks in place.
- When attaching a lens other than an EF-S lens, align the lens with the red EF lens mount index.



3 On the lens, set the focus mode switch to <AF> (autofocus).

- If it is set to <**MF**> (manual focus), autofocus will not operate.



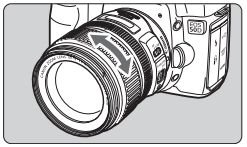
4 Remove the front lens cap.

Minimizing Dust

- When changing lenses, do it in a place with minimal dust.
- When storing the camera without a lens attached, be sure to attach the body cap to the camera.
- Remove dust on the body cap before attaching it.

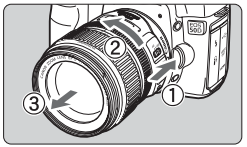
Downloaded from ManualsCamera.com Manuals

About Zooming



To zoom, turn the zoom ring on the lens with your fingers.
If you want to zoom, do it before focusing. Turning the zoom ring after achieving focus may throw off the focus slightly.

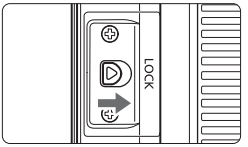
Detaching the Lens



While pressing the lens release button, turn the lens as shown by the arrow.

- Turn the lens until it stops, then detach it.
- Attach the dust cap to the detached lens.

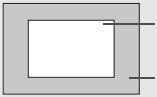
To owners of the EF-S18-200mm f/3.5-5.6 IS kit lens:



You can prevent the zoom ring from extending out while you are carrying it around. Set the zoom ring to the 18mm wide-angle end, then slide the zoom ring lock lever to <**LOCK**>. The zoom ring can be locked only at the wide-angle end.

- Do not look at the sun directly through any lens. Doing so may cause loss of vision.
- If the front part (focusing ring) of the lens rotates during autofocusing, do not touch the rotating part.

Image Conversion Factor
Since the image sensor size is smaller than the 35mm film format, it will look like the lens focal length is increased by 1.6x.

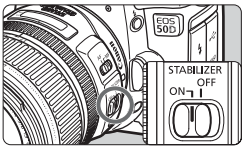


Downloaded from ManualsCamera.com Manuals

About the Lens Image Stabilizer

The procedure explained here is based on the EF-S17-85mm f/4-5.6 IS USM lens as an example.

* IS stands for Image Stabilizer.



1 Set the IS switch to <ON>.

- Set the camera's power switch to <ON>.

2 Press the shutter button halfway.

▶ The Image Stabilizer will operate.

3 Take the picture.

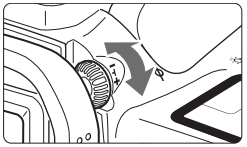
- When the picture looks steady in the viewfinder, press the shutter button completely to take the picture.

- The Image Stabilizer is not effective for moving subjects.
- The Image Stabilizer may not be effective for excessive shaking such as on a rocking boat.
- With the EF-S17-85mm f/4-5.6 IS USM or EF28-135mm f/3.5-5.6 IS USM lens, the Image Stabilizer will not be very effective while you move the camera to take panned shots.

- The Image Stabilizer can operate with the focus mode switch set to either <**AF**> or <**MF**>.
- If the camera is mounted on a tripod, you can save battery power by switching the IS switch to <OFF>.
- The Image Stabilizer can operate even when the camera is mounted on a monopod.
- Some IS lenses enable you to switch the IS mode manually to suit the shooting conditions. However, the EF-S18-200mm f/3.5-5.6 IS and EF-S18-55mm f/3.5-5.6 IS lenses switch the IS mode automatically.

Downloaded from ManualsCamera.com Manuals

Adjusting the Viewfinder Clarity



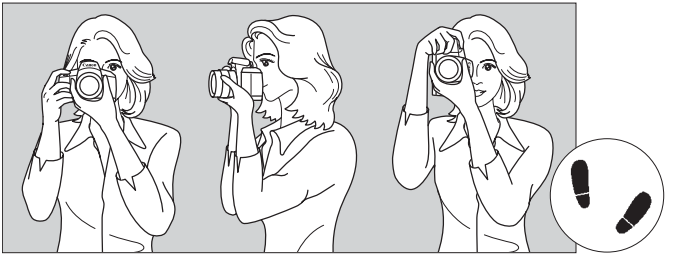
Turn the dioptric adjustment knob.

- Turn the knob left or right so that the nine AF points in the viewfinder look sharp.

If the camera's dioptric adjustment still cannot provide a sharp viewfinder image, using Dioptric Adjustment Lens E (10 types, sold separately) is recommended.

Holding the Camera

To obtain sharp images, hold the camera still to minimize camera shake.



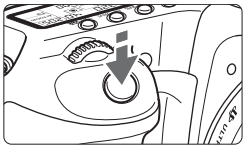
Horizontal shooting Vertical shooting

1. Wrap your right hand around the camera grip firmly.
2. Hold the lens bottom with your left hand.
3. Press the shutter button lightly with your right hand's index finger.
4. Press your arms and elbows lightly against the front of your body.
5. Press the camera against your face and look through the viewfinder.
6. To maintain a stable stance, place one foot in front of the other.

Downloaded from ManualsCamera.com Manuals

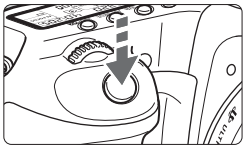
Shutter Button

The shutter button has two steps. You can press the shutter button halfway. Then you can further press the shutter button completely.



Pressing halfway

This activates autofocusing and automatic exposure metering that sets the shutter speed and aperture.
The exposure setting (shutter speed and aperture) is displayed on the LCD panel and in the viewfinder (⏱4).



Pressing completely

This releases the shutter and takes the picture.

Preventing Camera Shake

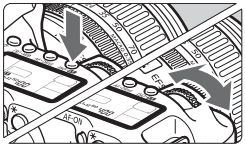
Camera movement during the moment of exposure is called camera shake. Camera shake can cause blurred pictures. To prevent camera shake, note the following:

- Hold and steady the camera as shown on the previous page.
- Press the shutter button halfway to autofocus, then press the shutter button completely.

- In the Creative Zone modes, pressing the <AF-ON> button will be the same as pressing the shutter button halfway.
- If you press the shutter button completely without pressing it halfway first or if you press the shutter button halfway and then press it completely immediately, the camera will take a moment before it takes the picture.
- Even during the menu display, image playback, and image recording, you can instantly go back to shooting-ready by pressing the shutter button halfway.

Downloaded from ManualsCamera.com Manuals

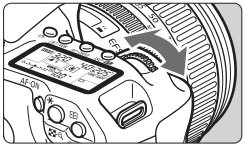
<⊛> Using the Main Dial for Selecting



(1) After pressing a button, turn the <⊛> dial.

When you press a button, its function remains selected for 6 seconds (⏱6). During this time, you can turn the <⊛> dial to set the desired setting.
When the function turns off or if you press the shutter button halfway, the camera will be ready to shoot.

- Use this dial to select or set the metering mode, AF mode, ISO speed, AF point, etc.

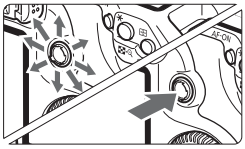


(2) Turn the <⊛> dial only.

While looking at the viewfinder or LCD panel, turn the <⊛> dial to set the desired setting.

- Use this dial to set the shutter speed, aperture, etc.

<✣> Operating the Multi-controller



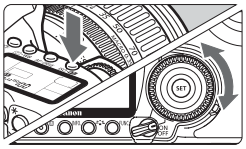
The <✣> consists of a key with eight directions and a button at the center.

- Use it to select the AF point, correct the white balance, scroll the playback image during magnified view, operate the Quick Control screen, etc.
  Also use it to select menu options (except [▶̇ **Erase images**] and [🔧̇ **Format**]).

Downloaded from ManualsCamera.com Manuals

<◯> Using the Quick Control Dial for Selecting

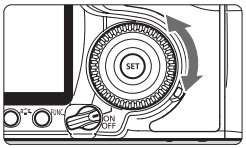
Before using the <◯> dial, set the power switch to <⌐>.



(1) After pressing a button, turn the <◯> dial.

When you press a button, its function remains selected for 6 seconds (⏱6). During this time, you can turn the <◯> dial to set the desired setting.
When the function turns off or if you press the shutter button halfway, the camera will be ready to shoot.

- Use this dial to select or set the white balance, drive mode, flash exposure compensation, AF point, etc.



(2) Turn the <◯> dial only.

While looking at the viewfinder or LCD panel, turn the <◯> dial to set the desired setting.

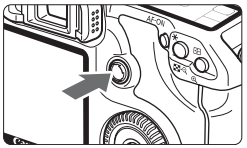
- Use this dial to set the exposure compensation amount, the aperture setting for manual exposures, etc.

You can also do step (1) when the power switch is set to <ON>.

Downloaded from ManualsCamera.com Manuals

Using the Quick Control Screen

The shooting settings are displayed on the LCD monitor where you can quickly select and set the functions. This is called the Quick Control screen.



1 Display the Quick Control screen.

- Press <✣> straight down.
- ▶ The Quick Control screen will appear (10 sec.).

Basic Zone modes

Creative Zone modes

2 Set the desired setting.

- Use <✣> to select the function.
- In the Basic Zone modes, you can select certain drive modes (p.89) and the image-recording quality (p.60).
- ▶ A brief description of the selected function is displayed on the screen's bottom.
- Turn the <◯> or <⟳> dial to change the setting.

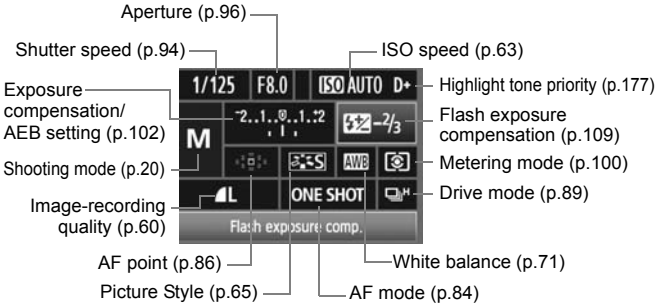
3 Take the picture.

- Press the shutter button completely to take the picture.
- ▶ The LCD monitor turns off and the captured image is displayed.

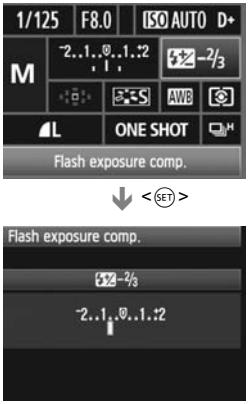
If [**C.Fn III -3: AF point selection method**] is set to [**1: Multi-controller direct**] (p.179), the Quick Control screen cannot be displayed.

Downloaded from ManualsCamera.com Manuals

Quick Control Screen Nomenclature



Function Setting Display



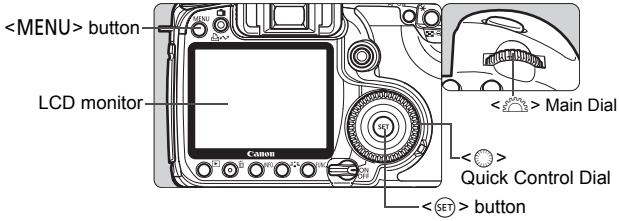
- On the Quick Control screen, select the function and press <SET>. The respective setting screen will then appear (except for the shutter speed and aperture).
- Turn the <dial> or <dial> dial to change the setting. For some functions, you can also use <multi-controller> to change the setting.
- Press <SET> to return to the Quick Control screen.

<D+> (Highlight tone priority) cannot be set with the Quick Control screen.

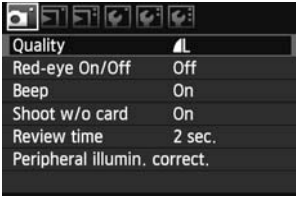
Downloaded from ManualsCamera.com Manuals

Menu Operations

By setting various functions with the menus, you can set the image-recording quality, date/time, etc. While looking at the LCD monitor, you use the <MENU> button on the camera back and the < > < > dials.

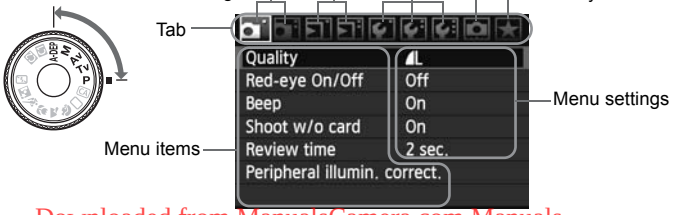


Basic Zone Mode Menu Screen



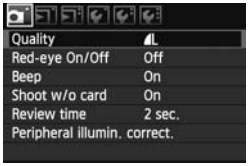
* **The [/ / ★] tabs are not displayed in the Full Auto and Basic Zone modes.**
When a Basic Zone mode is set, there are menu items which are not displayed.

Creative Zone Mode Menu Screen



Downloaded from ManualsCamera.com Manuals

Menu Setting Procedure

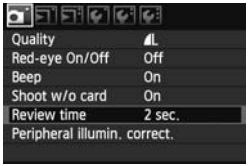


1 Display the menu.

- Press the <MENU> button to display the menu.

2 Select a tab.

- Turn the <dial> dial to select a tab.

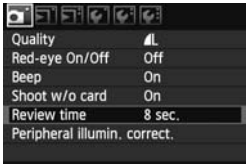


3 Select the desired item.

- Turn the <dial> dial to select the item, then press <SET>.

4 Select the setting.

- Turn the <dial> dial to select the desired setting.
- Some menu items will indicate the current setting in blue.



5 Set the desired setting.

- Press <SET> to set it.

6 Exit the menu.

- Press the <MENU> button to exit the menu and return to camera shooting.

The explanation of menu functions hereinafter assumes that you have pressed the <MENU> button to display the menu screen.

Downloaded from ManualsCamera.com Manuals

MENU Setting the Interface Language

1 Select [Language].

- Under the [🔧] tab, select [**Language**] (the third item from the top), then press <SET>.

2 Set the desired language.

- Turn the <◯> dial to select the language, then press <SET>.
- ▶ The language will change.

MENU Setting the Date and Time

Check if the camera's date and time are set correctly. If necessary, set the correct date and time.

1 Select [Date/Time].

- Under the [🔧] tab, select [**Date/Time**], then press <SET>.

2 Set the date, time and date display format.

- Turn the <◯> dial to select the number.
- Press <SET> so ⬚ is displayed.
- Turn the <◯> dial to select the desired setting, then press <SET> (Returns to □).

3 Exit the setting.

- Turn the <◯> dial to select [**OK**], then press <SET>.
- ▶ The date/time will be set and the menu will reappear.

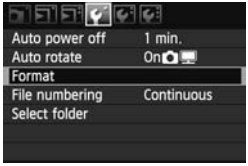
It is important to set the correct date/time because it will be recorded together with each captured image.

Downloaded from ManualsCamera.com Manuals

MENU Formatting the Card

If the card is new or was previously formatted by another camera or personal computer, format the card with the camera.

When the card is formatted, all images and data in the card will be erased. Even protected images will be erased, so make sure there is nothing you need to keep. If necessary, transfer the images to a personal computer, etc., before formatting the card.



1 Select [Format].

- Under the [🔧] tab, select [**Format**], then press <(SET)>.

2 Select [OK].

- Turn the <◌> dial to select [**OK**], then press <(SET)>.
- ▶ The card will be formatted.
- ▶ When the formatting is completed, the menu will reappear.

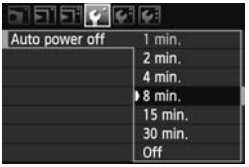
When the card is formatted or data is erased, only the file management information is changed. The actual data is not completely erased. Be aware of this when selling or discarding the card. When discarding the card, destroy the card physically to prevent personal data from being leaked.

The card capacity displayed on the card format screen might be smaller than the capacity indicated on the card.

Downloaded from ManualsCamera.com Manuals

MENU Set the Power-off Time/Auto Power Off

You can change the auto power-off time for the camera to turn off automatically after a certain period of non-operation. If you do not want the camera to turn off automatically, set this to [**Off**]. After the power turns off, you can turn on the camera again by pressing the shutter button or other button.



1 Select [Auto power off].

- Under the [ ] tab, select [**Auto power off**], then press <SET>.

2 Set the desired time.

- Turn the <dial> dial to select the item, then press <SET>.

Even if [**Off**] has been set, the LCD monitor will turn off automatically after 30 min. to save power. (The camera's power does not turn off.)

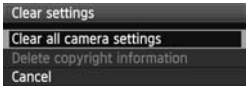
Downloaded from ManualsCamera.com Manuals

MENU Reverting the Camera to the Default Settings ☆

The camera's shooting settings and menu settings can be reverted to the default.

1 Select [Clear settings].

- Under the [🔧] tab, select [**Clear settings**], then press <SET>.



2 Select [Clear all camera settings].

- Turn the <dial> dial to select [**Clear all camera settings**], then press <SET>.

3 Select [OK].

- Turn the <dial> dial to select [**OK**], then press <SET>.
- ▶ Setting [**Clear all camera settings**] will reset the camera to the following default settings:

Shooting Settings

AF mode	One-Shot AF
Metering mode	(Evaluative metering)
Drive mode	(Single shooting)
Exposure compensation	0 (Zero)
AEB	Canceled
Flash exposure compensation	0 (Zero)
Live View shooting	Disable
Custom Functions	No changes

Image-Recording Settings

Quality	L
ISO speed	Auto
Picture Style	Standard
Color space	sRGB
White balance	AWB (Auto)
WB correction	Canceled
WB-BKT	Canceled
Peripheral illumination correction	Enable/Correction data retained
File numbering	Continuous
Auto cleaning	Enable
Dust Delete Data	Erased

Downloaded from ManualsCamera.com Manuals

Camera Settings	
Auto power off	1 min.
Beep	On
Shoot w/o card	On
Review time	2 sec.
Highlight alert	Disable
AF point display	Disable
Histogram	Brightness

Camera Settings	
Image jump w/	10 images
Auto rotate	On
LCD brightness	
Date/Time	No changes
Language	No changes
Video system	No changes
Camera user settings	No changes
My Menu settings	No changes

About Copyright Information

If you use EOS Utility (provided software) to set your copyright information, the copyright information will be added to the image's Exif information. With the camera, the copyright information can only be viewed or deleted. If your copyright information has not been set, it will be grayed out on the screen.

- With the [**Clear settings**] screen displayed, press the <INFO.> button to display the copyright information.
- Press the <MENU> button to return to the [**Clear settings**] screen.
- To delete the copyright information, select [**Delete copyright information**] on the [**Clear settings**] screen.

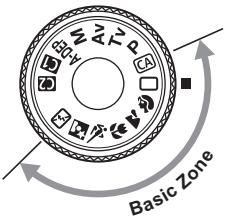
Downloaded from ManualsCamera.com Manuals

2

Basic Shooting

This chapter explains how to use the Basic Zone modes on the Mode Dial for best results.

With the Basic Zone modes, all you do is point and shoot and the camera sets everything automatically (p.196). Also, to prevent botched pictures due to mistaken operations, shooting settings cannot be changed in the Basic Zone modes.



About the Auto Lighting Optimizer

In the Basic Zone modes, the Auto Lighting Optimizer will adjust the image automatically to obtain the optimum brightness and contrast. It is also enabled by default in the Creative Zone modes (p.177).

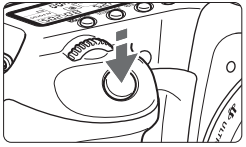
Downloaded from ManualsCamera.com Manuals

Fully Automatic Shooting

1 Set the Mode Dial to <▭>.

2 Aim any AF point over the subject.

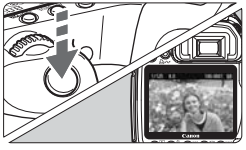
- All the AF points will operate, and focus will generally be achieved at the AF point covering the closest object.
- Aiming the center AF point over the subject will make focusing easier.



3 Focus the subject.

- Press the shutter button halfway, and the lens focusing ring will rotate to focus.
- ▶ The AF point which achieves focus will briefly flash in red. At the same time, the beeper will sound and the focus confirmation light <●> in the viewfinder will light.
- ▶ If necessary, the built-in flash will pop-up automatically.

Focus confirmation light



4 Take the picture.

- Press the shutter button completely to take the picture.
- ▶ The captured image will be displayed for about 2 sec. on the LCD monitor.
- If the built-in flash has popped up, you can push it back down with your fingers.

Downloaded from ManualsCamera.com Manuals

FAQ

- **The focus confirmation light <●> blinks and focus is not achieved.**
  Aim the AF point over an area having good contrast between light and dark, then press the shutter button halfway (p.88). If you are too close to the subject, move away and try again.
- **Sometimes multiple AF points flash simultaneously.**
  This indicates that focus has been achieved at all those AF points. As long as the AF point covering the desired subject flashes, you can take the picture.
- **The beeper continues to beep softly. (The focus confirmation light <●> also does not light.)**
  It indicates that the camera is focusing continuously on a moving subject. (The focus confirmation light <●> does not light.) While the beeper is beeping, you can press the shutter button completely to shoot a moving subject in focus.
- **Pressing the shutter button halfway does not focus the subject.**
  When the focus mode switch on the lens is set to <**MF**> (Manual Focus), the camera does not focus. Set the focus mode switch to <**AF**> (Auto Focus).
- **Although it is daylight, the flash popped up.**
  For a backlit subject, the flash may pop up to help reduce harsh shadows on the subject.
- **In low light, the built-in flash fired a series of flashes.**
  To assist the autofocusing, pressing the shutter button halfway may trigger the built-in flash to fire a series of flashes. This is called AF-assist beam. It is effective up to approx. 4 meters/13.1 feet away.
- **Although flash was used, the picture came out dark.**
  The subject was too far away. The subject should be within 5 meters/16.4 feet from the camera.
- **When flash was used, the bottom part of the picture came out unnaturally dark.**
  The subject was too close to the camera, and a shadow was created by the lens. The subject should be at least 1 meter/3.3 feet away from the camera. If a hood has been attached to the lens, remove it before taking the flash picture.

Downloaded from ManualsCamera.com Manuals

Recomposing the Shot

Depending on the scene, position the subject toward the left or right to create a balanced background and good perspective.
In the <▭> (Full Auto) mode, while you press the shutter button halfway to focus a still subject, the focus will be locked. You can then recompose the shot and press the shutter button completely to take the picture. This is called “focus lock”. Focus lock is also possible in other Basic Zone modes (except <🏃> Sports).

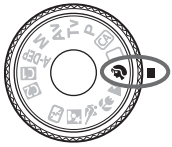
Shooting a Moving Subject

In the <▭> (Full Auto) mode, if the subject moves (distance to camera changes) during or after you focus, AI Servo AF will take effect to focus the subject continuously. As long as you keep aiming the AF point on the subject while pressing the shutter button halfway, the focusing will be continuous. When you want to take the picture, press the shutter button completely.

Downloaded from ManualsCamera.com Manuals

Shooting Portraits

The <> (Portrait) mode blurs the background to make the human subject stand out. It also makes flesh tones and the hair look softer than with the <> (Full Auto) mode.



Shooting Tips

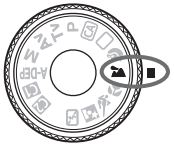
- **The farther the distance between the subject and background, the better.**
  The further the distance between the subject and background, the more blurred the background will look. The subject will also stand out better in front of a plain, dark background.
- **Use a telephoto lens.**
  If you have a zoom lens, use the telephoto end to fill the frame with the subject from the waist up. Move in closer if necessary.
- **Focus the face.**
  Check that the AF point covering the face flashes in red.

- If you hold down the shutter button, you can shoot continuously to obtain different poses and facial expressions. (max. approx. 3 shots/sec.)
- If necessary, the built-in flash will pop-up automatically.

Downloaded from ManualsCamera.com Manuals

Shooting Landscapes

Use the <🏔> (Landscape) mode for wide scenery, night scenes, or to have everything in focus from near to far. The greens and blues also become more vivid and sharper than with <▭> (Full Auto).



Shooting Tips

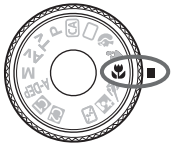
- **With a zoom lens, use the wide-angle end.**
  When using the wide-angle end of a zoom lens, objects near and far will be in focus better than at the telephoto end. It also adds breadth to landscapes.

- **Shooting night scenes.**
  Since the built-in flash will be disabled, this mode is also good for night scenes. Use a tripod to prevent camera shake. If you want to photograph a person against a night scene, set the Mode Dial to <🌃> (Night Portrait) and use a tripod (p.55).

Downloaded from ManualsCamera.com Manuals

Shooting Close-ups

When you want to photograph flowers or small things up close, use the <> (Close-up) mode. To make small things appear much larger, use a macro lens (sold separately).



Shooting Tips

- **Use a simple background.**
  A simple background makes the flower, etc., stand out better.
- **Move to the subject as close as possible.**
  Check the lens for its minimum focusing distance. Some lenses have indications such as <**0.28m/0.9ft**>. The lens minimum focusing distance is measured from the <> (focal plane) mark on the camera to the subject. If you are too close to the subject, the focus confirmation light <●> will blink.
  Under low light, the built-in flash will fire. If you are too close to the subject and the bottom of the picture looks dark, move away from the subject.
- **With a zoom lens, use the telephoto end.**
  If you have a zoom lens, using the telephoto end will make the subject look larger.

Downloaded from ManualsCamera.com Manuals

Shooting Moving Subjects

To photograph a moving subject, whether it is a child running or a moving vehicle, use the <> (Sports) mode.

Shooting Tips

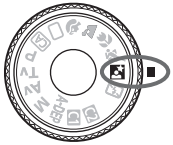
- **Use a telephoto lens.**
  Using a telephoto lens is recommended so you can shoot from afar.
- **Use the center AF point to focus.**
  Aim the center AF point over the subject, then press the shutter button halfway to auto focus. During autofocusing, the beeper will continue beeping softly. If focus cannot be achieved, the focus confirmation light <●> will blink.
  When you want to take the picture, press the shutter button completely. If you hold down the shutter button, continuous shooting (max. approx. 6.3 shots per sec.) and autofocusing will take effect.

Under low light when camera shake is prone to occur, the viewfinder's shutter speed display on the bottom left will blink. Hold the camera steady and shoot.

Downloaded from ManualsCamera.com Manuals

Shooting Portraits at Night

To shoot someone at night and obtain a natural-looking exposure in the background, use the <> (Night Portrait) mode.



Shooting Tips

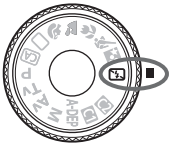
- **Use a wide-angle lens and a tripod.**
  When using a zoom lens, use the wide-angle end to obtain a wide night view. Also, use a tripod to prevent camera shake.
- **Keep the person within 5 meters/16.4 feet from the camera.**
  Under low light, the built-in flash will fire automatically to obtain a good exposure of the person. The effective distance of the built-in flash is 5 meters/16.4 feet from the camera.
- **Shoot also with <> (Full Auto).**
  Since camera shake is prone to occur with night shots, shooting also with <> (Full Auto) is recommended.

- Tell the subject to keep still even after the flash fires.
- If the self-timer is also used, the self-timer lamp will flash after the picture is taken.

Downloaded from ManualsCamera.com Manuals

Disabling Flash

In places where flash photography is prohibited, use the <⚡> (Flash Off) mode. This mode is also effective for candlelight scenes when you want to capture the ambient light.



Shooting Tips

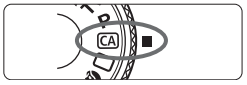
- **If the numeric display in the viewfinder blinks, take care to prevent camera shake.**
  Under low light when camera shake is prone to occur, the viewfinder's shutter speed display will blink. Hold the camera steady or use a tripod. When using a zoom lens, use the wide-angle end to reduce blur caused by camera shake.
- **Taking portraits without flash.**
  Under low light, the person must not move until the picture is taken. If the person moves during the exposure, he or she might look blurred in the picture.

Downloaded from ManualsCamera.com Manuals

CA Creative Auto Shooting

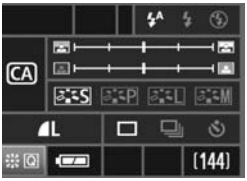
The <CA> (Creative Auto) mode enables you to easily change the picture's brightness, etc. The default settings are the same as the <□> (Full Auto) mode.

* CA stands for Creative Auto.



1 Set the Mode Dial to <CA>.

▶ The Creative Auto screen appears on the LCD monitor.



2 Press <✣> straight down.

▶ You can use <✣> to select a function.

- Functions (1) to (6) shown on the next page can be selected.

3 Set the desired setting.

- Use <✣> to select the function.

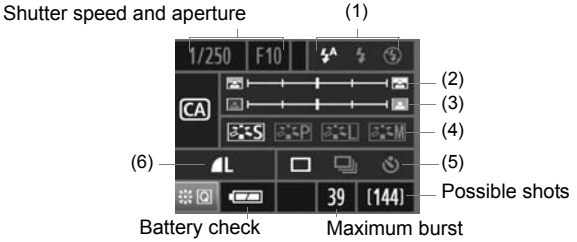
▶ The selected function is displayed on the screen's bottom.

- Turn the <◯> or <⌓> dial to change the setting.
- Press <✣> straight down to return to step 1 screen.

4 Take the picture.

- When the picture is taken, the LCD monitor turns off.
- If you change the shooting mode or turn off the power switch, the Creative Auto settings will revert to the default. The image-recording quality setting will be retained.

Downloaded from ManualsCamera.com Manuals



(1) Flash firing

<ϟA> (Auto firing), <ϟ> (Flash on), or <⊗> (Flash off) can be selected. If you set <⊗>, see "Disabling Flash" on page 56.

(2) Blurring/sharpening the background

If you move the index mark toward the left, the background will look more blurred. If you move it toward the right, the background will look more in focus. If you want to blur the background, see "Shooting Portraits" on page 51.

(3) Adjusting the picture brightness

If you move the index mark toward the left, the picture will look darker. If you move it toward the right, the picture will look brighter.

(4) Picture Style

You can select one of four Picture Styles (p.65, 66).

(5) Single, continuous, and self-timer shooting

If you select <□>, you can shoot continuously at about 3 shots per sec. If you select <⏲>, see the notes (□) for "Self-timer Operation" on page 90.

(6) Image-recording quality

When you press <(SET)>, the image-recording quality setting screen will appear. To set the image-recording quality, see "Setting the Image-recording Quality" on page 60. After adjusting all the desired settings, press <(SET)> to return to the screen in step 2 on the previous page.

Downloaded from ManualsCamera.com Manuals

3

Image Settings

This chapter explains image-related function settings: Image-recording quality, ISO speed, Picture Styles, white balance, color space, etc.

- In the Basic Zone modes, you can only set the image-recording quality and lens peripheral illumination correction, create and select folders, and set the file numbering as explained in this chapter.
- The ☆ icon on the right of the page title indicates that the respective feature is available only in Creative Zone modes (**P**, **Tv**, **Av**, **M**, A-DEP).

Downloaded from ManualsCamera.com Manuals

MENU Setting the Image-recording Quality

You can select the pixel count and the image quality. The following JPEG quality settings can be set: ◢L, ◢L, ◢M, ◢M, ◢S, ◢S. RAW images captured as RAW, SRAW1, or SRAW2 must be processed with the provided software (p.62).

1 Select [Quality].

- Under the [📷] tab, select [**Quality**], then press <(SET)>.
- ▶ The [**Quality**] screen will appear.

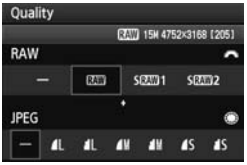
2 Select the image-recording quality.

- To select a RAW setting, turn the <dial> dial. To select a JPEG setting, turn the <dial> dial.
- On the upper right, the "***M** (megapixels) **** x ****" number indicates the recorded pixel count, and "***" is the number of possible shots (displayed up to 999).
- Press <(SET)> to set the selected quality.

Image-recording Quality Setting Example

◢L only

RAW only



RAW + ◢L

SRAW2 + ◢M

* If [–] is set for both RAW and JPEG, ◢L will be set.

Downloaded from ManualsCamera.com Manuals

Guide to Image-recording Quality Settings (Approx.)

Quality		Pixels	Printing Size	File Size (MB)	Possible Shots	Maximum Burst
JPEG setting	◢L	Approx. 15.1 megapixels (15M)	A3 or larger	5.0	370	60 (90)
	▟L			2.5	740	150 (740)
	◢M	Approx. 8.0 megapixels (8M)	A3 - A4	3.0	620	110 (620)
	▟M			1.6	1190	390 (1190)
	◢S	Approx. 3.7 megapixels (3.7M)	A4 or smaller	1.7	1090	330 (1090)
	▟S			0.9	2040	1050 (2040)
RAW setting	RAW	Approx. 15.1 megapixels (15M)	A3 or larger	20.2	91	16 (16)
	SRAW1	Approx. 7.1 megapixels (7.1M)	A3 - A4	12.6	140	16 (16)
	SRAW2	Approx. 3.8 megapixels (3.8M)	A4 or smaller	9.2	200	19 (19)
RAW & JPEG settings	◢L	Approx. 15.1 megapixels	A3 or larger	20.2+	72	10 (10)
	RAW	Approx. 15.1 megapixels	A3 or larger	5.0		
	◢L	Approx. 15.1 megapixels	A3 or larger	12.6+	100	10 (10)
	SRAW1	Approx. 7.1 megapixels	A3 - A4	5.0		
	◢L	Approx. 15.1 megapixels	A3 or larger	9.2+	120	11 (11)
	SRAW2	Approx. 3.8 megapixels	A4 or smaller	5.0		

- Figures for the file size, possible shots, and maximum burst during continuous shooting are based on Canon's testing standards (ISO 100 and Standard Picture Style) using a 2GB card. **These figures will vary depending on the subject, card brand, ISO speed, Picture Style, Custom Functions, etc.**
- The maximum burst applies to high-speed continuous shooting. Figures in parentheses apply to an Ultra DMA (UDMA) 2GB card based on Canon's testing standards.

- If you select both RAW and JPEG, the same image will be captured in both types at the selected image-recording quality. The two images will be saved in the same folder with the same file numbers (file extension JPG for JPEG and CR2 for RAW).
- When SRAW1 or SRAW2 is selected, the LCD panel will display SRAW.
- The icons are read as follows: RAW (RAW), SRAW1 (Small RAW1), SRAW2 (Small RAW2), ◢ (Fine), ▟ (Normal), L (Large), M (Medium), and S (Small).

Downloaded from ManualsCamera.com Manuals

About RAW

The RAW image is the data output by the image sensor and converted to digital data which is recorded on the card as is. You can select it from among RAW, sRAW 1, or sRAW 2. “RAW” written in the text will refer to all three RAW settings: RAW, sRAW 1, and sRAW 2.
With RAW images, you can use the provided software to make various adjustments as needed. From the RAW image, the software can develop and produce the adjusted image in the desired type such as JPEG or TIFF.

About [C.Fn II -2: High ISO speed noise reduction] and RAW or RAW+JPEG images
Although [**C.Fn II -2: High ISO speed noise reduction**] (p.176) settings (Standard/Low/Strong/Disable) are applied to the recorded images, the images without noise reduction applied are used during image playback (on the LCD monitor and on a TV screen) or direct printing. (Noise may appear in the images.)
Confirm the noise reduction effects or print noise-reduced images with Digital Photo Professional (provided software).

Commercial software might not be able to display RAW images. Using the provided software is recommended.

Maximum Burst During Continuous Shooting

The maximum burst during continuous shooting indicated on the preceding page is the number of continuous shots that can be taken without stopping, based on a formatted 2GB card.

The number is displayed in the viewfinder on the bottom right. If the maximum burst is 99 or higher, “**99**” will be displayed.

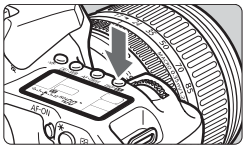
Downloaded from ManualsCamera.com Manuals

- The maximum burst is displayed even when a card is not in the camera. Make sure that a card is loaded before taking a picture.
- The maximum burst for <□H> is displayed regardless of the drive mode setting.
- If [**C.Fn II -2: High ISO speed noise reduction**] is set to [**2: Strong**], the maximum burst will be reduced (p.176).

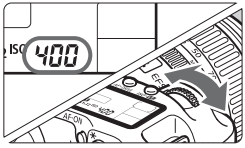
If the viewfinder displays "**99**" for the maximum burst, it means the maximum burst is 99 or higher. If 98 or lower is displayed, the maximum burst is 98 or lower. If you stop the continuous shooting, the maximum burst will increase. After all the captured images are written to the card, the maximum burst will be as listed on page 61.

ISO: Setting the ISO Speed ☆

Set the ISO speed (image sensor's sensitivity to light) to suit the ambient light level. In the Basic Zone modes, the ISO speed is set automatically (p.64).



1 Press the <ISO·⚡> button. (⏱6)



2 Set the ISO speed.

- While looking at the LCD panel or viewfinder, turn the <◯> dial.
- It can be set within ISO 100-3200 in 1/3-stop increments.
- When "**A**" is selected, the ISO speed will be set automatically (p.64).

Downloaded from ManualsCamera.com Manuals

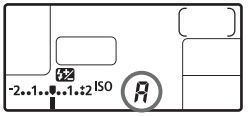
ISO Speed Guide

ISO Speed	Shooting Situation (No flash)	Flash Range
100 - 200	Sunny outdoors	The higher the ISO speed, the farther the flash range will be (p.108).
400 - 800	Overcast skies, evening	
1600 - 3200, H1, H2	Dark indoors or night	

- If [**C.Fn II -3: Highlight tone priority**] is set to [**1: Enable**], the settable ISO speed range will be ISO 200 - 3200 (p.177).
- Using a high ISO speed or shooting in high-temperature conditions may result in more grainy images. Long exposures can also cause irregular colors in the image.

With [**C.Fn I -3: ISO expansion**] set to [**1: On**], "**H1**" (equivalent to ISO 6400) and "**H2**" (equivalent to ISO 12800) can also be set (p.174).

About "A" (Auto) ISO Speed



If the ISO speed is set to "**A**", the actual ISO speed to be set will be displayed when you press the shutter button halfway. As indicated below, the ISO speed will be set automatically to suit the shooting mode.

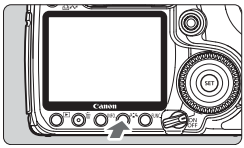
Shooting Mode	ISO Speed Setting
/ / / / / / CA / **P** / **Tv** / **Av** / A-DEP	ISO 100 - 1600
	Fixed at ISO 100
M	Fixed at ISO 400
With flash	Fixed at ISO 400*

* If fill flash results in overexposure, ISO 100 or a higher ISO will be set.

Downloaded from ManualsCamera.com Manuals

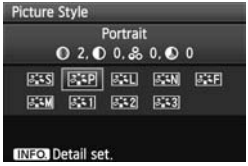
Selecting a Picture Style ☆

By selecting a Picture Style, you can obtain the image effects matching your photographic expression or the subject.
In the Basic Zone modes (except for CA), you cannot select the Picture Style.



1 Press the <Picture Style> button.

- When the camera is ready to shoot, press the <Picture Style> button.
- ▶ The Picture Style screen will appear.



2 Select a Picture Style.

- Turn the <Quick Control Dial> or <Main Dial> to select a Picture Style, then press <SET>.
- ▶ The Picture Style will take effect and the camera will be ready to shoot.

You can also use the [**Picture Style**] menu to select the Picture Style.

Picture Style Effects

Standard (CA: Standard)
The image looks vivid, sharp, and crisp. This is a general-purpose Picture Style suitable for most scenes.

Portrait (CA: Smooth skin tones)
For nice skin tones. The image looks softer. Effective for close-ups of women or children. This Picture Style is also selected automatically when the Mode Dial is set to <Portrait>.
By changing the [**Color tone**] (p.67), you can adjust the skin tone.

Landscape (CA: Vivid blues and greens)
For vivid blues and greens, and very sharp and crisp images. Effective for impressive landscapes. This Picture Style is also selected automatically when the Mode Dial is set to <Landscape>.

Downloaded from ManualsCamera.com Manuals

Neutral

This Picture Style is for users who prefer to process images with their personal computer. For natural colors and subdued images.

Faithful

This Picture Style is for users who prefer to process images with their personal computer. When the subject is captured under a color temperature of 5200K, the color is adjusted colorimetrically to match the subject's color. The image is dull and subdued.

Monochrome (CA: Monochrome image)

For black-and-white images.

Other than with RAW, the black-and-white image cannot be reverted to color. If you want to later shoot pictures in color, make sure the [**Monochrome**] setting has been canceled. When [**Monochrome**] is selected, <**B/W**> will appear in the viewfinder and on the LCD panel.

User Def. 1-3

You can register your own Picture Style settings for [**Portrait**], [**Landscape**], etc (p.69). Any User Defined Picture Style which has not been set will have the same settings as the Standard Picture Style.

About the Symbols

The symbols on the top of the Picture Style selection screen refer to parameters such as [**Sharpness**] and [**Contrast**]. The numerals indicate the parameter settings, such as [**Sharpness**] and [**Contrast**], for each Picture Style.

Symbols

	Sharpness
	Contrast
	Saturation
	Color tone
	Filter effect (Monochrome)
	Toning effect (Monochrome)

Downloaded from ManualsCamera.com Manuals

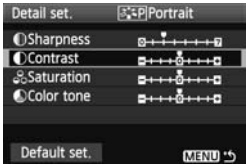
Customizing a Picture Style ☆

You can customize a Picture Style by adjusting individual parameters like [**Sharpness**] and [**Contrast**]. To see the resulting effects, take test shots. To customize [**Monochrome**], see the next page.

1 Press the <> button.

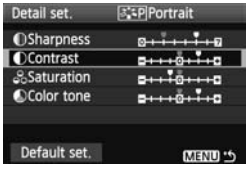
2 Select a Picture Style.

- Turn the <> or <> dial to select a Picture Style, then press the <INFO.> button.



3 Select a parameter.

- Turn the <> dial to select a parameter, then press <(SET)>.



4 Set the parameter.

- Turn the <> dial to adjust the parameter as desired, then press <(SET)>.
- Press the <MENU> button to save the adjusted parameter. The Picture Style selection screen will reappear.

▶ Any settings different from the default will be displayed in blue.

Parameter Settings and Effects

Sharpness	[0] : Less sharp outline	[+7] : Sharp outline
Contrast	[-4] : Low contrast	[+4] : High contrast
Saturation	[-4] : Low saturation	[+4] : High saturation
Color tone	[-4] : Reddish skin tone	[+4] : Yellowish skin tone

Downloaded from ManualsCamera.com Manuals

- By selecting [**Default set.**] in step 3, you can revert the respective Picture Style to its default parameter settings.
- To shoot with the Picture Style you modified, follow step 2 on the preceding page to select the modified Picture Style and then shoot.

Monochrome Adjustment

For Monochrome, you can also set [**Filter effect**] and [**Toning effect**] in addition to [**Sharpness**] and [**Contrast**] explained on the preceding page.

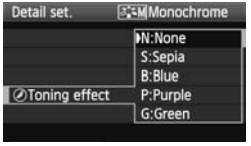
Filter Effect

With a filter effect applied to a monochrome image, you can make white clouds or green trees stand out more.

Filter	Sample Effects
N: None	Normal black-and-white image with no filter effects.
Ye: Yellow	The blue sky will look more natural, and the white clouds will look crisper.
Or: Orange	The blue sky will look slightly darker. The sunset will look more brilliant.
R: Red	The blue sky will look quite dark. Fall leaves will look crisper and brighter.
G: Green	Skin tones and lips will look fine. Tree leaves will look crisper and brighter.

Increasing the [**Contrast**] will make the filter effect more pronounced.

Toning Effect



By applying a toning effect, you can create a monochrome image in that color. It can make the image look more impressive.
The following can be selected: [**N:None**] [**S:Sepia**] [**B:Blue**] [**P:Purple**] [**G:Green**].

Downloaded from ManualsCamera.com Manuals

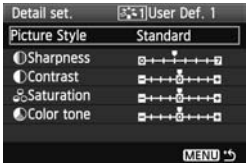
Registering a Picture Style ☆

You can select a base Picture Style such as [**Portrait**] or [**Landscape**], adjust its parameters as desired and register it under [**User Def. 1**], [**User Def. 2**], or [**User Def. 3**]. You can create Picture Styles whose parameter settings such as for sharpness and contrast are different. You can also adjust the parameters of a Picture Style which has been registered to the camera with the provided software.

1 Press the <> button.

2 Select [User Def.].

- Turn the <> dial to select [**User Def. ***], then press the <INFO.> button.



3 Press <(SET)>.

- With [**Picture Style**] selected, press <(SET)>.

4 Select the base Picture Style.

- Turn the <> dial to select the base Picture Style, then press <(SET)>.
- To adjust the parameters of a Picture Style which has been registered to the camera with the provided software, select the Picture Style here.

5 Select a parameter.

- Select a parameter such as [**Sharpness**], then press <(SET)>.

Downloaded from ManualsCamera.com Manuals

6 Set the parameter.

- Turn the <◌> dial to adjust the parameter as desired, then press <(SET)>.
  For details, see “Customizing the Picture Style” on pages 67-68.
- Press the <MENU> button to register the new Picture Style. The Picture Style selection screen will then reappear.

▶ The base Picture Style will be indicated on the right of [**User Def. ***].

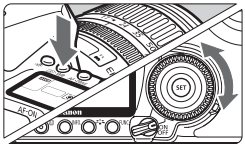
If a Picture Style has already been registered under [**User Def. ***], changing the base Picture Style in step 4 will nullify the parameter settings of the registered Picture Style.

To shoot with the registered Picture Style, follow step 2 on the preceding page to select [**User Def. ***] and then shoot.

Downloaded from ManualsCamera.com Manuals

WB: Setting the White Balance ☆

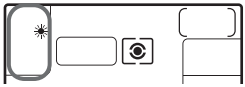
White balance (WB) is for making the white areas look white. Normally, the <AWB> (Auto) setting will obtain the correct white balance. If natural-looking colors cannot be obtained with <AWB>, you can select the white balance for each light source or set it manually by shooting a white object. In the Basic Zone modes, <AWB> will be set automatically.



1 Press the <⊙·WB> button. (⏱6)

2 Select the white balance.

- While looking at the LCD panel, turn the <◯> dial.



Display	Mode	Color Temperature (Approx. K: Kelvin)
AWB	Auto	3000 - 7000
☀	Daylight	5200
⌂	Shade	7000
☁	Cloudy, twilight, sunset	6000
☀	Tungsten light	3200
▦	White fluorescent light	4000
ϟ	Flash use	6000
▱	Custom (p.72)	2000 - 10000
K	Color temperature (p.73)	2500 - 10000

About White Balance

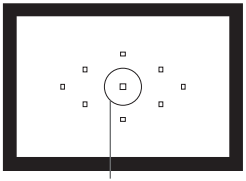
To the human eye, a white object looks white regardless of the type of lighting. With a digital camera, the color temperature is adjusted with software to make the white areas look white. This adjustment serves as the basis for the color correction. The result is natural-looking colors in the pictures.

You can also use the [📷: **White balance**] menu to set the white balance.

Downloaded from ManualsCamera.com Manuals

Custom White Balance

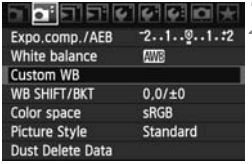
Custom white balance enables you to manually set the white balance for a specific light source for better accuracy. Do this procedure under the actual light source to be used.



Spot metering circle

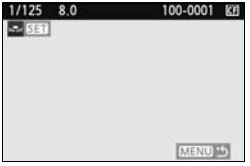
1 Photograph a white object.

- The plain, white object should fill the spot metering circle.
- Focus manually and set the standard exposure for the white object.
- You can set any white balance.



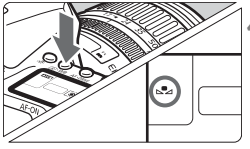
2 Select [Custom WB].

- Under the [ ] tab, select [**Custom WB**], then press <(SET)>.
- ▶ The SET screen will appear.



3 Import the white balance data.

- Turn the <> or <> dial to select the image captured in step 1, then press <(SET)>.
- ▶ On the dialog screen which appears, select [**OK**] and the data will be imported.



4 Press the <·WB> button. (6)

- After exiting the menu, press the <·WB> button.

5 Select the custom white balance.

- Look at the LCD panel and turn the <> dial to select <>.

Downloaded from ManualsCamera.com Manuals

- If the exposure obtained in step 1 is way off, a correct white balance might not be obtained.
- If the image was captured while the Picture Style was set to [**Monochrome**] (p.66), it cannot be selected in step 3.

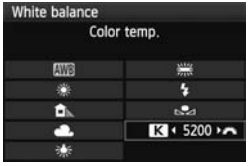
- Instead of a white object, an 18% gray card (commercially available) can produce a more accurate white balance.
- The personal white balance registered with the provided software will be registered under <P>. If you do step 3, the data for the registered personal white balance will be erased.

K Setting the Color Temperature

You can set the white balance's color temperature numerically in Kelvin. This is for advanced users.

1 Select [White balance].

- Under the [📷] tab, select [**White balance**], then press <(SET)>.



2 Set the color temperature.

- Turn the <◯> dial to select [K].
- Turn the <◯> dial to set the color temperature, then press <(SET)>.
- The color temperature can be set from 2500K to 10000K in 100K increments.

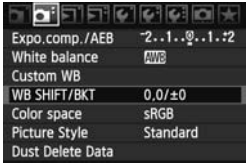
- When setting the color temperature for an artificial light source, set white balance correction (magenta or green) as necessary.
- If you want to set <K> to the reading taken with a commercially-available color temperature meter, take test shots and adjust the setting to compensate for the difference between the color temperature meter's reading and the camera's color temperature reading.

Downloaded from ManualsCamera.com Manuals

MENU White Balance Correction ☆

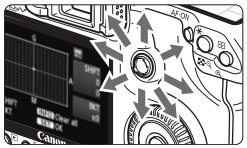
You can correct the white balance that has been set. This adjustment will have the same effect as using a commercially-available color temperature conversion filter or color compensating filter. Each color can be corrected to one of nine levels.
This is for advanced users who are familiar with using color temperature conversion or color compensating filters.

White Balance Correction



1 Select [WB SHIFT/BKT].

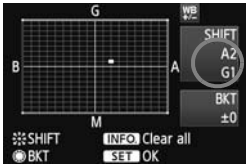
- Under the [📷] tab, select [**WB SHIFT/BKT**], then press <(SET)>.



2 Set the white balance correction.

- Use <✣> to move the "■" mark to the desired position.
- B is for blue, A is amber, M is magenta, and G is green. The color in the respective direction will be corrected.
- On the upper right, "**SHIFT**" indicates the direction and correction amount.
- Pressing the <INFO.> button will cancel all the [**WB SHIFT/BKT**] settings.
- Press <(SET)> to exit the setting and return to the menu.

Sample setting: A2, G1

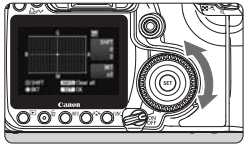


- During the white balance correction, <WB> will be displayed in the viewfinder and on the LCD panel.
- One level of the blue/amber correction is equivalent to 5 mireds of a color temperature conversion filter. (Mired: Measuring unit indicating the density of a color temperature conversion filter.)

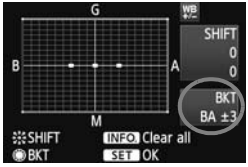
Downloaded from ManualsCamera.com Manuals

White Balance Auto Bracketing

With just one shot, three images having a different color tone can be recorded simultaneously. Based on the color temperature of the current white balance setting, the image will be bracketed with a blue/amber bias or magenta/green bias. This is called white balance bracketing (WB-BKT). White balance bracketing is possible up to ±3 levels in single-level increments.



B/A bias ±3 levels



Set the white balance bracketing amount.

- In step 2 for white balance correction, when you turn the <◯> dial, the "■" mark on the screen will change to "■ ■ ■" (3 points). Turning the dial to the right sets the B/A bracketing, and turning it to the left sets the M/G bracketing.
- ▶ On the right side of the screen, "**BKT**" indicates the bracketing direction and the bracketing amount.
- Pressing the <INFO.> button will cancel all the [**WB SHIFT/BKT**] settings.
- Press <(SET)> to exit the setting and return to the menu.

Bracketing Sequence

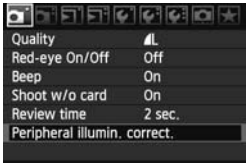
The images will be bracketed in the following sequence: 1. Standard white balance, 2. Blue (B) bias, and 3. Amber (A) bias, or 1. Standard white balance, 2. Magenta (M) bias, 3. Green (G) bias.

- During WB bracketing, the maximum burst for continuous shooting will be lower and the number of possible shots will also decrease to one-third the normal number. Also, the white balance icon will blink on the LCD panel.
- You can also set white balance correction and AEB together with white balance bracketing. If you set AEB in combination with white balance bracketing, a total of nine images will be recorded for a single shot.
- Since three images are recorded for one shot, the card will take longer to record the shot.
- "**BKT**" stands for Bracketing.

Downloaded from ManualsCamera.com Manuals

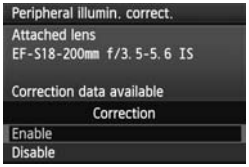
MENU Lens Peripheral Illumination Correction

Due to the lens characteristics, the four corners of the picture might look darker. This is called lens light fall-off or drops in peripheral illumination. This can be corrected. For JPEG images, lens light fall-off is corrected when the image is captured. For RAW images, it can be corrected with Digital Photo Professional (provided software).



1 Select [Peripheral illumin. correct.].

- Under the [ ] tab, select [**Peripheral illumin. correct.**], then press <(SET)>.



2 Check the screen.

- On the screen, check that the attached lens' "**Correction data available**" is displayed.
- If "**Correction data not available**" is displayed, see "About the Lens Correction Data" on the next page.
- Turn the <◌> dial to select [**Enable**], then press <(SET)>.

3 Take the picture.

- The image will be displayed with the corrected peripheral light.

Peripheral illumination correction

Enable Disable

Downloaded from ManualsCamera.com Manuals

About the Lens Correction Data

The camera already contains lens peripheral light correction data for about 20 lenses. In step 2, if you select [**Enable**], the peripheral light correction will be applied automatically for any lens whose correction data has been registered in the camera.

With the EOS Utility (provided software), you can check which lenses have their correction data registered in the camera. You can also register the correction data for unregistered lenses. For details, see the Software Instruction Manual (CD-ROM) for EOS Utility.

- For JPEG images already captured, lens peripheral light correction cannot be applied.
- Depending on shooting conditions, noise might appear on the image periphery.
- When using a third-party lens setting the correction to [**Disable**] is recommended, even if [**Correction data available**] is displayed.

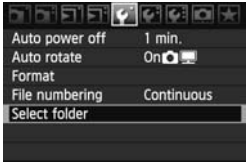
- Lens peripheral light correction is applied even when an Extender is attached.
- If the correction data for the attached lens has not been registered to the camera, the result will be the same as when the correction is set to [**Disable**].
- The correction amount applied will be slightly lower than the maximum correction amount settable with Digital Photo Professional (provided software).
- If the lens does not have distance information, the correction amount will be lower.
- The higher the ISO speed, the lower the correction amount will be.
- The correction might not be noticeable with lenses whose peripheral light fall-off is minimal.

Downloaded from ManualsCamera.com Manuals

MENU Creating and Selecting a Folder

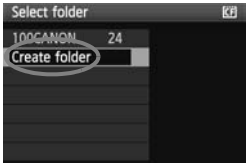
You can freely create and select the folder where the captured images are to be saved.
This is optional since a folder will be created automatically for saving captured images.

Create a Folder



1 Select [Select folder].

- Under the [ ] tab, select [**Select folder**], then press <SET>.



2 Select [Create folder].

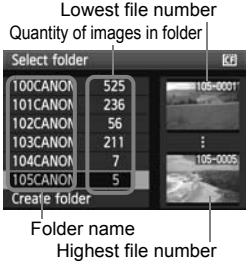
- Turn the <dial> dial to select [**Create folder**], then press <SET>.

3 Create a folder.

- Turn the <dial> dial to select [**OK**], then press <SET>.
- ▶ A new folder with a higher one-up folder number is created.

Downloaded from ManualsCamera.com Manuals

Selecting a Folder



- With the Select folder screen displayed, turn the <◌> dial to select the desired folder, then press <(SET)>.
- ▶ The folder where the captured images will be saved will be selected.
- Subsequent captured images will be recorded into the selected folder.

About Folders

As with "**100CANON**" for example, the folder name starts with three digits (folder number) followed by five alphanumeric characters. A folder can contain up to 9999 images (file No. 0001 - 9999). When a folder becomes full, a new folder with a higher one-up folder number is created automatically. Also, if manual reset (p.81) is executed, a new folder will be created automatically. Folders numbered from 100 to 999 can be created.

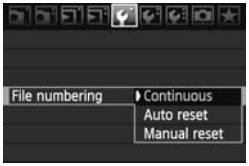
Creating Folders with a Personal Computer

With the card open on the screen, create a new folder named "**DCIM**". Open the DCIM folder and create as many folders as necessary to save and organize your images. The folder name must follow the "**100ABC_D**" format where the first three digits is 100 - 999 followed by five alphanumeric characters. The five characters can be a combination of upper- or lower-case letters from A to Z, numerals, and an underscore "_". There can be no space in the folder name. Also, folder names cannot have the same three-digit number such as "100ABC_D" and "100W_XYZ" even if the letters are different.

Downloaded from ManualsCamera.com Manuals

MENU File Numbering Methods

The file number is like the frame number on a roll of film. The captured images are assigned a sequential file number from 0001 to 9999 and saved in one folder. You can change how the file number is assigned. The file number will appear on a personal computer in this format: **IMG_0001.JPG**.



1 Select [File numbering].

- Under the [ ] tab, select [**File numbering**], then press <SET>.

2 Select the file numbering method.

- Turn the <dial> dial to select the desired method, then press <SET>.

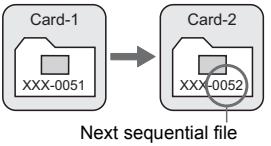
Continuous

Continues the file numbering sequence even after the card is replaced or a new folder is created.

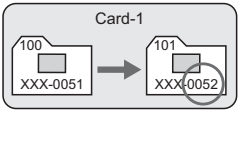
Even after you replace the card or create a new folder, the file numbering continues in sequence up to 9999. This is convenient when you want to save the images numbered anywhere between 0001 to 9999 in multiple cards or folders into one folder in your personal computer.

If the replacement card or existing folder already contains images recorded previously, the file numbering of the new images might continue from the file numbering of the existing images in the card or folder. If you want to use continuous file numbering, you should use a newly-formatted card each time.

File numbering after replacing the card



File numbering after creating a folder

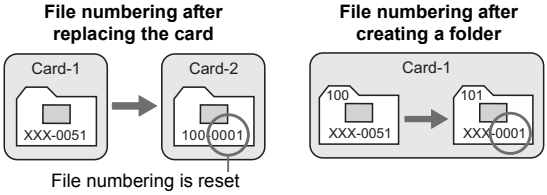


Downloaded from ManualsCamera.com Manuals

Auto Reset

The file numbering restarts from 0001 each time the card is replaced or a new folder is created.

Whenever the card is replaced or a new folder created, the file numbering starts from 0001. This is convenient if you want to organize images according to cards or folders. If the replacement card or existing folder already contains images recorded previously, the file numbering of the new images might continue from the file numbering of the existing images in the card or folder. If you want to save images with the file numbering starting from 0001, use a newly formatted card each time.



Manual Reset

To reset the file numbering to 0001 or to start from file number 0001 in a new folder

When you reset the file numbering manually, a new folder is created automatically and the file numbering of images saved to that folder starts from 0001. This is convenient when you want to use different folders for the images taken yesterday and the ones taken today, for example. After the manual reset, the file numbering returns to continuous or auto reset.

If folder No. 999 is created, [**Folder number full**] will appear on the LCD monitor. If that folder contains images reaching file number 9999, shooting will not be possible even if the card still has storage capacity. The LCD monitor will display a message to replace the card. Replace with a new card.

For both JPEG and RAW images, the file name will start with “IMG_”. The extension will be “.JPG” for JPEG images and “.CR2” for RAW images.

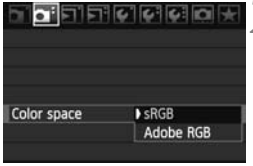
Downloaded from ManualsCamera.com Manuals

MENU Setting the Color Space ☆

The color space refers to the range of reproducible colors. With this camera, you can set the color space for captured images to sRGB or Adobe RGB. For normal shooting, sRGB is recommended.
In the Basic Zone modes, sRGB is set automatically.

1 Select [Color space].

- Under the [📷] tab, select [**Color space**], then press <(SET)>.



2 Set the desired color space.

- Select [**sRGB**] or [**Adobe RGB**], then press <(SET)>.

About Adobe RGB

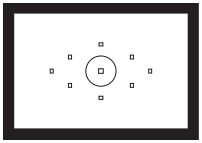
This color space is mainly used for commercial printing and other industrial uses. This setting is not recommended if you do not know about image processing, Adobe RGB, and Design rule for Camera File System 2.0 (Exif 2.21). The image will look very subdued in the sRGB personal computer environment and with printers not compatible with Design rule for Camera File System 2.0 (Exif 2.21). Post-processing of the image with software will therefore be required.

- If the image is captured with the color space set to Adobe RGB, the file name will start with "_MG_" (first character is an underscore).
- The ICC profile is not appended. The ICC profile is explained in the Software Instruction Manual in the CD-ROM.

Downloaded from ManualsCamera.com Manuals

4

Setting the AF and Drive Modes



The viewfinder has 9 AF points. By selecting a suitable AF point, you can shoot with autofocus while framing the subject as desired.

You can also select the AF mode and drive mode best matching the shooting conditions and subject.

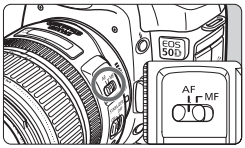
- The ☆ icon on the right of the page title indicates that the respective feature is available only in the Creative Zone modes (**P**, **Tv**, **Av**, **M**, A-DEP).
- In the Basic Zone modes, the AF mode, AF point selection, and drive mode are set automatically.

<AF> stands for auto focus. <MF> stands for manual focus.

Downloaded from ManualsCamera.com Manuals

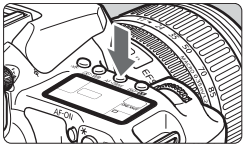
AF: Selecting the AF Mode ☆

Select the AF mode suiting the shooting conditions or subject. In the Basic Zone modes, the optimum AF mode is set automatically.

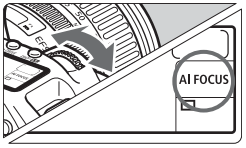


1 On the lens, set the focus mode switch to <AF>.

2 Set the Mode Dial to a Creative Zone mode.



3 Press the <AF•DRIVE> button. (⏱6)



4 Select the AF mode.

- While looking at the LCD panel, turn the <◌> dial.

ONE SHOT: One-Shot AF
AI FOCUS: AI Focus AF
AI SERVO: AI Servo AF

One-Shot AF for Still Subjects

Suited for still subjects. When you press the shutter button halfway, the camera will focus only once.

- When focus is achieved, the AF point which achieved focus will flash in red, and the focus confirmation light <●> in the viewfinder will also light.
- With evaluative metering, the exposure setting will be set at the same time focus is achieved.
- While you hold down the shutter button halfway, the focus will be locked. You can then recompose the shot if desired.
- In the Creative Zone modes, AF is also possible by pressing the <AF-ON> button.

Downloaded from ManualsCamera.com Manuals

- If focus cannot be achieved, the focus confirmation light <●> in the viewfinder will blink. If this occurs, a picture cannot be taken even if the shutter button is pressed completely. Recompose the picture and try to focus again. Or see “When Autofocus Fails” (p.88).
- If the [**Beep**] menu is set to [**Off**], the beeper will not sound when focus is achieved.

AI Servo AF for Moving Subjects

This AF mode is for moving subjects when the focusing distance keeps changing. While you hold down the shutter button halfway, the subject will be focused continuously.

- The exposure is set at the moment the picture is taken.
- In the Creative Zone modes, AF is also possible by pressing the <AF-ON> button.
- When the AF point selection is automatic (p.86), the camera first uses the center AF point to focus. During autofocusing, if the subject moves away from the center AF point, focus tracking continues as long as the subject is covered by another AF point.

With AI Servo AF, the beeper will not sound even when focus is achieved. Also, the focus confirmation light <●> in the viewfinder will not light.

AI Focus AF for Automatic Switching of AF Mode

AI Focus AF switches the AF mode from One-Shot AF to AI Servo AF automatically if the still subject starts moving.

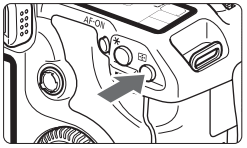
- After the subject is focused in the One-Shot AF mode, if the subject starts moving, the camera will detect the movement and change the AF mode automatically to AI Servo AF.

When focus is achieved in the AI Focus AF mode with the Servo mode active, the beeper will sound softly. However, the focus confirmation light <●> in the viewfinder will not light.

Downloaded from ManualsCamera.com Manuals

Selecting the AF Point ☆

Select one of the nine AF points to autofocus. In the Basic Zone and <A-DEP> modes, automatic AF point selection will take effect automatically. You cannot select the AF point.



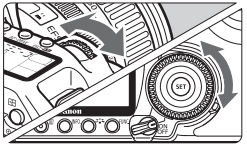
1 Press the <⊡> button. (⏱6)

- ▶ The selected AF point will be displayed in the viewfinder and on the LCD panel.
- When all AF points light up, automatic AF point selection will be set.

2 Select the AF point.

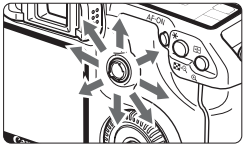
- To select an AF point, you can either turn the <⊙> or <◯> dial or use <✥>.

Selecting with the Dial



- When you turn the <⊙> or <◯> dial, the AF point selection will change in the respective direction.
- When all AF points light up, automatic AF point selection will be set.

Selecting with the Multi-controller



- The AF point selection will change in the direction you tilt the <✥>. If you keep tilting it in the same direction, it will toggle between manual and automatic AF point selection.

Downloaded from ManualsCamera.com Manuals

- When looking at the LCD panel to select the AF point, note the following: Automatic selection [-], center [-], right [-], top [ ]
- If focus cannot be achieved with the external, EOS-dedicated Speedlite's AF-assist beam, select the center AF point.

AF-Assist Beam with the Built-in Flash

Under low-light conditions, when you press the shutter button halfway, the built-in flash fires a brief burst of flashes. It illuminates the subject to enable easier autofocusing.

- In the <> , <>, and <> modes, the AF-assist beam does not fire.
- The built-in flash's AF-assist beam is effective up to about 4 meters/13.2 feet.
- In the Creative Zone modes when you pop-up the built-in flash with the <> button, the AF-assist beam will be fired when necessary.

Lens' Maximum Aperture and AF Sensitivity

With lenses whose maximum aperture is larger than f/5.6
With all AF points, cross-type AF sensitive to both vertical and horizontal lines is possible.

With lenses whose maximum aperture is larger than f/2.8*
With the center AF point, high-precision, cross-type AF sensitive to both vertical and horizontal lines is possible. The center AF point's sensitivity to vertical and horizontal lines is about twice as sensitive as the other AF points.
The remaining eight AF points will work as cross-type points with lenses brighter than f/5.6.
* Except with the EF28-80mm f/2.8-4L USM and EF50mm f/2.5 Compact Macro lenses.

Downloaded from ManualsCamera.com Manuals

When Autofocus Fails

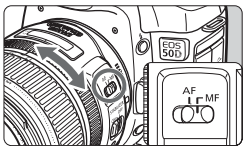
Autofocus can fail to achieve focus (the focus confirmation light <●> blinks) with certain subjects such as the following:

Subjects difficult to focus

- Low-contrast subjects
  (Example: Blue sky, solid-color walls, etc.)
- Subjects in low light
- Extremely backlit or reflective subjects
  (Example: Car with a reflective body, etc.)
- Near and far subjects covered by an AF point
  (Example: Animal in a cage, etc.)
- Repetitive patterns
  (Example: Skyscraper windows, computer keyboards, etc.)

In such cases, do one of the following:
(1) With One-Shot AF, focus an object at the same distance as the subject and lock the focus before recomposing (p.50).
(2) Set the lens focus mode switch to <**MF**> and focus manually.

Manual Focusing



1 Set the lens focus mode switch to <MF>.

2 Focus the subject.

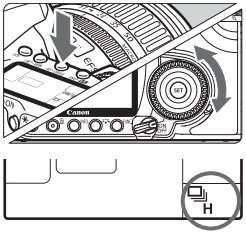
- Focus by turning the lens focusing ring until the subject looks sharp in the viewfinder.

If you press the shutter button halfway during manual focusing, the active AF point and the focus confirmation light <●> in the viewfinder will light when focus is achieved.

Downloaded from ManualsCamera.com Manuals

Selecting the Drive Mode ☆

Single and continuous drive modes are provided. In the Basic Zone modes, the optimum drive mode is set automatically.



1 Press the <AF•DRIVE> button. (⏱6)

2 Select the drive mode.

- While looking at the LCD panel, turn the <◯> dial.

□ : **Single shooting**
When you press the shutter button completely, one shot will be taken.

□H: **High-speed continuous shooting** (Max. 6.3 shots per sec.)

□ : **Low-speed continuous shooting** (Max. 3 shots per sec.)
In the □H and □ modes, the camera will shoot continuously while you hold down the shutter button completely.

⏱ : **Self-timer** (10-sec. delay)

⏱2 : **Self-timer** (2-sec. delay)
See the next page for the self-timer operation procedure.

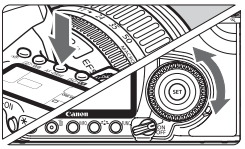
Maximum burst

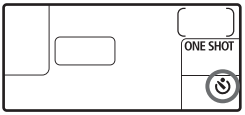
- When the internal buffer memory becomes full during continuous shooting, "**buSY**" will be displayed on the LCD panel and in the viewfinder and shooting will be disabled temporarily. As the captured images are recorded to the card, you will be able to shoot more images. Press the shutter button halfway to check in the viewfinder's bottom right for the current maximum burst. This is the maximum number of shots that can be taken continuously.
- If "**FuLL CF**" is displayed in the viewfinder and on the LCD panel, wait until the access lamp stops blinking, then replace the card.
- When the battery level is low, the continuous shooting speed will be slightly slower.
- In the AI Servo AF mode, the continuous shooting speed may become slightly slower depending on the subject and the lens used.

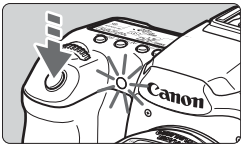
Downloaded from ManualsCamera.com Manuals

Self-timer Operation

Use the self-timer when you want to be in the picture. The <⏲> (10 sec. timer) can be used in all shooting modes.







1 Press the <AF•DRIVE> button. (⏲6)

2 Select the self-timer.

- Look at the LCD panel and turn the <◯> dial.

  ⏲ : **10-sec. self-timer**
  ⏲₂ : **2-sec. self-timer**☆

3 Take the picture.

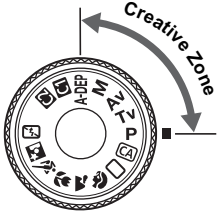
- Focus the subject and press the shutter button completely.
- ▶ You can check the self-timer operation with the self-timer lamp, beeper, and countdown display (in seconds) on the LCD panel.
- ▶ Two seconds before the picture is taken, the self-timer lamp will stay on and the beeper will sound faster.

- After taking self-timer shots, you should check the image for proper focus and exposure (p.132).
- If you will not look through the viewfinder when you press the shutter button, attach the eyepiece cover (p.105). If stray light enters the viewfinder when you press the shutter button, it may throw off the exposure.
- When using the self-timer to shoot only yourself, use focus lock (p.50) for an object at about the same distance as where you will be.
- To cancel the self-timer after it starts, press the <AF•DRIVE> button.

Downloaded from ManualsCamera.com Manuals

5

Advanced Operations



With the Creative Zone modes, you can set the desired shutter speed or aperture to obtain the result you want. You take control of the camera.

- The ☆ icon on the right of the page title indicates that the respective feature is available only in the Creative Zone modes (**P**, **Tv**, **Av**, **M**, **A-DEP**).
- After you press the shutter button halfway and let go, the LCD panel and viewfinder information will remain displayed for about 4 sec. (⏱4).
- To see what settings can be set in the Creative Zone modes, see “Function Availability Table” (p.196).

First set the power switch to <⌐>.

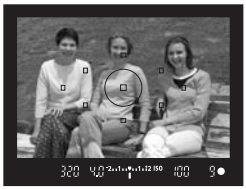
Downloaded from ManualsCamera.com Manuals

P: Program AE

The camera automatically sets the shutter speed and aperture to suit the subject's brightness. This is called Program AE.

* <**P**> stands for Program.
* AE stands for Auto Exposure.

1 Set the Mode Dial to <P>.



2 Focus the subject.

- Look through the viewfinder and aim the selected AF point over the subject. Then press the shutter button halfway.

▶ The AF point which achieves focus flashes in red, and the focus confirmation light <●> in the viewfinder's bottom right lights (with One Shot AF + automatic AF point selection).

▶ The shutter speed and aperture will be set automatically and displayed in the viewfinder and on the LCD panel.

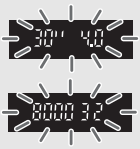
3 Check the shutter speed and aperture display.

- A correct exposure will be obtained as long as the shutter speed and aperture display do not blink.

4 Take the picture.

- Compose the shot and press the shutter button completely.

Downloaded from ManualsCamera.com Manuals



- If the "**30"**" shutter speed and the maximum aperture blink, it indicates underexposure.
  Increase the ISO speed or use flash.
- If the "**8000**" shutter speed and the minimum aperture blink, it indicates overexposure.
  Lower the ISO speed or use an ND filter (sold separately) to reduce the amount of light entering the lens.

Differences Between <P> and <▢> (Full Auto)

With <▢>, many functions such the AF mode, drive mode, and built-in flash are set automatically to prevent spoiled shots. The functions you can set are limited. With <**P**>, only the shutter speed and aperture are set automatically. You can freely set the AF mode, drive mode, built-in flash, and other functions.

About Program Shift

- In the Program AE mode, you can freely change the shutter speed and aperture combination (Program) set by the camera while maintaining the same exposure. This is called Program shift.
- To do this, press the shutter button down halfway, then turn the <☆> dial until the desired shutter speed or aperture value is displayed.
- Program shift is canceled automatically after the picture is taken.
- Program shift cannot be used with flash.

Downloaded from ManualsCamera.com Manuals

Tv: Shutter-Priority AE

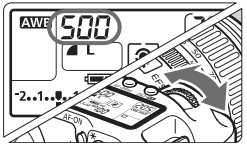
In this mode, you set the shutter speed and the camera automatically sets the aperture to obtain the correct exposure matching the brightness of the subject. This is called shutter-priority AE. A faster shutter speed can freeze the action or moving subject. Or a slower shutter speed can create a blurred effect, giving the impression of motion.

* <Tv> stands for Time value.

Frozen action
(Fast shutter speed)

Blurred motion
(Slow shutter speed)

1 Set the Mode Dial to <Tv>.



2 Set the desired shutter speed.

- While looking at the LCD panel, turn the <dial> dial.

3 Focus the subject.

- Press the shutter button halfway.
- ▶ The aperture is set automatically.

4 Check the viewfinder display and shoot.

- As long as the aperture is not blinking, the exposure will be correct.

Downloaded from ManualsCamera.com Manuals

- If the maximum aperture blinks, it indicates underexposure.
  Turn the <dial> dial to set a slower shutter speed until the aperture stops blinking or set a higher ISO speed.
- If the minimum aperture blinks, it indicates overexposure.
  Turn the <dial> dial to set a faster shutter speed until the aperture stops blinking or set a lower ISO speed.

Shutter Speed Display
The shutter speeds from "**8000**" to "**4**" indicate the denominator of the fractional shutter speed. For example, "**125**" indicates 1/125 sec. Also, "**0"5**" indicates 0.5 sec. and "**15"**" is 15 sec.

Downloaded from ManualsCamera.com Manuals

Av: Aperture-Priority AE

In this mode, you set the desired aperture and the camera sets the shutter speed automatically to obtain the correct exposure suiting the subject brightness. This is called aperture-priority AE. A higher f/number (smaller aperture hole) will make more of the foreground and background fall within acceptable focus. On the other hand, a lower f/number (larger aperture hole) will make less of the foreground and background fall within acceptable focus.

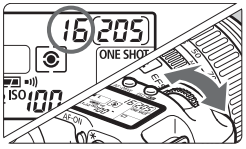
* <**Av**> stands for Aperture value (aperture opening).

Blurred background
(With a large aperture opening)

Sharp foreground and background
(With a small aperture opening)

---

1 Set the Mode Dial to <Av>.



2 Set the desired aperture.

- While looking at the LCD panel, turn the <dial> dial.

3 Focus the subject.

- Press the shutter button halfway.
- ▶ The shutter speed is set automatically.

4 Check the viewfinder display and shoot.

- As long as the shutter speed is not blinking, the exposure will be correct.

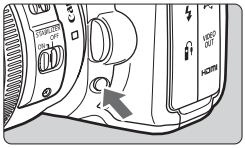
Downloaded from ManualsCamera.com Manuals

- If the "**30"**" shutter speed blinks, it indicates underexposure.
  Turn the <dial> dial to set a larger aperture (smaller f/number) until the blinking stops or set a higher ISO speed.

- If the "**8000**" shutter speed blinks, it indicates overexposure.
  Turn the <dial> dial to set a smaller aperture (larger f/number) until the blinking stops or set a lower ISO speed.

Aperture Display
The larger the f/number, the smaller the aperture opening will be. The apertures displayed will differ depending on the lens. If no lens is attached to the camera, "**00**" will be displayed for the aperture.

Depth-of-Field Preview ☆



Press the depth-of-field preview button to stop down to the current aperture setting. You can check the depth of field (range of acceptable focus) through the viewfinder.

- A higher f/number will make more of the foreground and background fall within acceptable focus. However, the viewfinder will look darker.
- If the depth of field is difficult to discern, hold down the depth-of-field preview button while turning the <dial> dial.
- The exposure will be locked (AE lock) while the depth-of-field preview button is pressed.

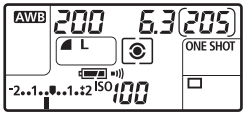
Downloaded from ManualsCamera.com Manuals

M: Manual Exposure

In this mode, you set both the shutter speed and aperture as desired. To determine the exposure, refer to the exposure level indicator in the viewfinder or use a commercially-available handheld exposure meter. This method is called manual exposure.

* <M> stands for Manual.

1 Set the Mode Dial to <M>.

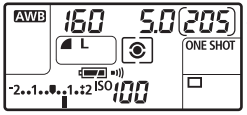


2 Set the shutter speed and aperture.

- To set the shutter speed, turn the <> dial.
- To set the aperture, set the power switch to <>, and turn the <> dial.

3 Focus the subject.

- Press the shutter button halfway.
- ▶ The exposure setting will be displayed in the viewfinder and on the LCD panel.
- The exposure level mark <> lets you see how far you are from the standard exposure level.



4 Set the exposure.

- Check the exposure level and set the desired shutter speed and aperture.

5 Take the picture.

Downloaded from ManualsCamera.com Manuals

A-DEP : Automatic Depth-of-Field AE

Objects in the foreground and background will be in focus automatically. All the AF points will function to detect the subject, and the aperture required to attain the necessary depth of field will be set automatically.

* <A-DEP> stands for Auto-Depth of field. This mode sets the depth of field automatically.

1 Set the Mode Dial to <A-DEP>.

2 Focus the subject.

- Aim the AF points over the subjects and press the shutter button halfway (⏱4).
- All the subjects covered by the AF points flashing in red will be in focus.

3 Take the picture.

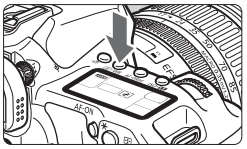
- If the "**30"**" shutter speed blinks, it indicates that the subject is too dark. Increase the ISO speed.
- If the "**8000**" shutter speed blinks, it indicates that the subject is too bright. Decrease the ISO speed.

- If the aperture blinks, it indicates that the exposure level is correct but the desired depth of field cannot be obtained. Either use a wide-angle lens or move farther away from the subjects.
- If the camera sets a slow shutter speed, hold the camera steady or use a tripod.
- If you use flash, the result will be the same as using <**P**> with flash.

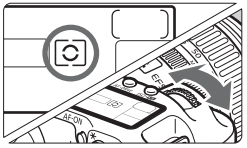
Downloaded from ManualsCamera.com Manuals

Selecting the Metering Mode ☆

The metering mode is the method of measuring the brightness of the subject. In the Basic Zone modes, evaluative metering is set automatically.

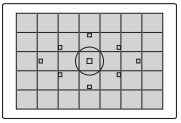


1 Press the <⊙·WB> button. (⏱6)



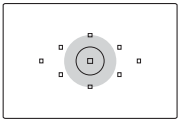
2 Select the metering mode.

- While looking at the LCD panel, turn the <◌> dial.



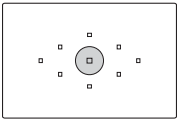
⊙ Evaluative metering

This is an all-around metering mode suited for portraits and even backlit subjects. The camera sets the exposure automatically to suit the scene.



◌ Partial metering

Effective when the background is much brighter than the subject due to backlighting, etc. Partial metering covers about 9% of the viewfinder area at the center.



• Spot metering

This is for metering a specific part of the subject or scene. The metering is weighted at the center covering about 3.8% of the viewfinder area.

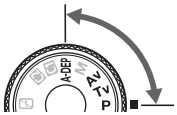
□ Center-weighted average metering

The metering is weighted at the center and then averaged for the entire scene.

Downloaded from ManualsCamera.com Manuals

Setting Exposure Compensation ☆

Exposure compensation is used to alter the standard exposure set by the camera. You can make the image look brighter (increased exposure) or darker (decreased exposure). You can set the exposure compensation up to ±2 stops in 1/3-stop increments.

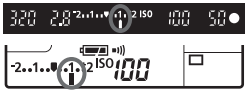


1 Turn the Mode Dial to any Creative Zone mode except <M>.

2 Check the exposure level indicator.

- Press the shutter button halfway and check the exposure level indicator.

Increased exposure for a brighter image



Decreased exposure for a darker image

3 Set the exposure compensation amount.

- Set the power switch to <⏎>, and while looking at the viewfinder or LCD panel, turn the <◯> dial.
- Turn the <◯> dial while pressing the shutter button halfway or within (⏱4) after pressing the shutter button halfway.
- To cancel the exposure compensation, set the exposure compensation amount back to <▮>.

4 Take the picture.

- The exposure compensation amount will remain in effect even after you set the power switch to <OFF>.
- Take care not to turn the <◯> dial and change the exposure compensation inadvertently. To prevent this, set the power switch to <ON>.
- The exposure compensation can also be set with [📷: **Expo. comp./ AEB**] menu (p.102).

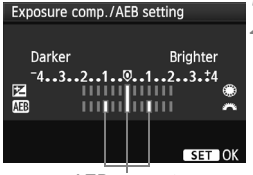
Downloaded from ManualsCamera.com Manuals

MENU Auto Exposure Bracketing (AEB) ☆

By changing the shutter speed or aperture automatically, the camera brackets the exposure up to ±2 stops in 1/3-stop increments for three successive shots. This is called AEB.

1 Select [Expo. comp./AEB].

- Under the [📷] tab, select [**Expo. comp./AEB**], then press <(SET)>.

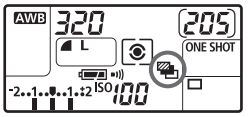


AEB amount

2 Set the AEB amount.

- Turn the <◯> dial to set the AEB amount.
- You can set the exposure compensation amount with the <◯> dial. If AEB is combined with exposure compensation, AEB will be applied centering on the exposure compensation amount.
- Press <(SET)> to set the amount.

▶ When you exit the menu, <▣> and the AEB level will be displayed on the LCD panel.



3 Take the picture.

- Focus and press the shutter button completely. The three bracketed shots will be taken in this sequence: Standard, decreased, and increased exposure.

Canceling AEB

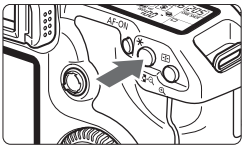
- Follow steps 1 and 2 to turn off the AEB amount display.
- AEB will be canceled automatically when you set the power switch to <OFF> or when the flash is ready to fire.

- If the drive mode is set to <□>, you must press the shutter button three times. When <□H> or <□L> is set and you hold down the shutter button completely, the three bracketed shots will be taken continuously. Then the camera will stop shooting. When <⏲> or <⏲2> is set, the three bracketed shots will be taken after a 10-sec. or 2-sec. delay.
- Neither flash nor bulb exposures can be used with AEB.

Downloaded from ManualsCamera.com Manuals

✳ AE Lock☆

Use AE lock when the area of focus is to be different from the exposure metering area or when you want to take multiple shots at the same exposure setting. Press the <✳> button to lock the exposure, then recompose and take the shot. This is called AE lock. It is effective for backlit subjects.



1 Focus the subject.

- Press the shutter button halfway.
- ▶ The exposure setting will be displayed.

2 Press the <✳> button. (⏱4)

- ▶ The <✳> icon lights in the viewfinder to indicate that the exposure setting is locked (AE lock).
- Each time you press the <✳> button, it locks the current auto exposure setting.

3 Recompose and take the picture.

- If you want to maintain the AE lock while taking more shots, hold down the <✳> button and press the shutter button to take another shot.

AE Lock Effects

Metering Mode (p.100)	AF Point Selection Method	
	Automatic Selection	Manual Selection
⊙*	AE lock is applied at the AF point that achieved focus.	AE lock is applied at the selected AF point.
⊡ • ⬚	AE lock is applied at the center AF point.	

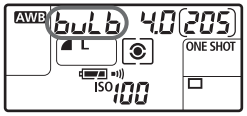
* When the lens' focus mode switch is set to <**MF**>, AE lock is applied at the center AF point.

Downloaded from ManualsCamera.com Manuals

Bulb Exposures

When bulb is set, the shutter stays open while you hold down the shutter button completely, and closes when you let go of the shutter button. This is called bulb exposure. Use bulb exposures for night scenes, fireworks, the heavens, and other subjects requiring long exposures.

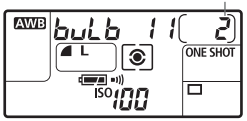
1 Set the Mode Dial to <M>.



2 Set the shutter speed to "buLb."

- While looking at the LCD panel, turn the <☆> dial to select "**buLb**."
- The next setting after "**30"** " is "**buLb**."

Elapsed exposure time



3 Set the desired aperture and shoot.

- To set the aperture, set the power switch to <⏾>, and turn the <◯> dial.
- While you hold down the shutter button, the exposure will continue.
- ▶ The elapsed exposure time (sec.) will be indicated on the LCD panel by the same indicator used for the shots remaining.

- Since bulb exposures produce more noise than usual, the image might look rough or grainy.
- When [**C.Fn II -1: Long exp. noise reduction**] is set to [**1: Auto**] or [**2: On**], noise generated by the bulb exposure can be reduced (p.176).
- For bulb exposures, using the Remote Switch RS-80N3 or Timer Remote Controller TC-80N3 (both sold separately) is recommended.

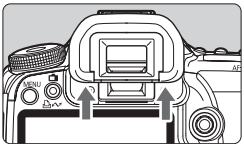
☼ LCD Panel Illumination

Each time you press the <☼> button, the LCD panel illumination will turn on or off (⏱6). During a bulb exposure, pressing the shutter button completely will turn off the LCD panel illumination.

Downloaded from ManualsCamera.com Manuals

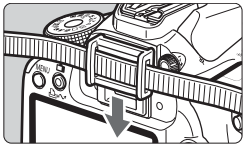
Using the Eyepiece Cover

If you take a picture without looking at the viewfinder, light entering the eyepiece can throw off the exposure. To prevent this, use the eyepiece cover (p.23) attached to the camera strap.



1 Remove the eyecup.

- Push the bottom of the eyecup upward.



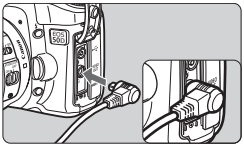
2 Attaching the eyepiece cover.

- Slide the eyepiece cover down into the eyepiece groove to attach it.

Connecting the Remote Switch

You can connect the Remote Switch RS-80N3 or Timer Remote Controller TC-80N3 (both sold separately) or any EOS accessory equipped with an N3-type terminal to the camera and shoot with it. To operate the accessory, refer to its instruction manual.

1 Open the terminal cover.



2 Connect the plug to the remote control terminal.

- Connect the plug as shown in the illustration.
- To disconnect the plug, grasp the plug's silver part and pull out.

Downloaded from ManualsCamera.com Manuals

Mirror Lockup ☆

Although using the self-timer or Remote Switch can prevent camera shake, using mirror lockup to prevent camera vibrations can also help when you use a super telephoto lens or shoot close ups.
When [C.Fn III -6: Mirror lockup] is set to [1: Enable] (p.180)**, shooting with mirror lockup will be possible.**

1 Focus the subject, press the shutter button completely and release it.

▶ The mirror will swing up.

2 Press the shutter button completely again.

▶ The picture is taken and the mirror goes back down.

- In very bright light such as at the beach or ski slope on a sunny day, take the picture promptly after mirror lockup.
- Do not point the camera toward the sun. The sun's heat can scorch and damage the shutter curtains.
- If you use bulb exposures, the self-timer, and mirror lockup in combination, keep pressing the shutter button completely (self-timer delay time + bulb exposure time). If you let go of the shutter button during the 10-sec./2-sec. self-timer countdown, there will be a shutter-release sound. This is not the actual shutter release (no picture is taken).

- When [**1: Enable**] is set, single shooting will take effect even if the drive mode is set to continuous.
- When the self-timer is set to <⏲> or <⏲₂>, the picture will be taken after 10 sec. or 2 sec. respectively.
- The mirror locks up, and after 30 seconds, it will go back down automatically. Pressing the shutter button completely again locks up the mirror again.
- For mirror lockup shots, using the Remote Switch RS-80N3 or Timer Remote Controller TC-80N3 (both sold separately) is recommended.

Downloaded from ManualsCamera.com Manuals

Using the Built-in Flash

E-TTL II autoflash obtains high-precision and consistent flash shots.

Using the Built-in Flash in the Basic Zone

If necessary, **the built-in flash will pop-up automatically** in low-light or backlit conditions. (except in <> <> <> modes)

Using the Built-in Flash in the Creative Zone

Regardless of the light level, **you can press the <> button to pop-up and fire the built-in flash whenever desired.** If the built-in flash has popped up, you can push it back down with your fingers.

P : **For fully automatic flash photography.** The shutter speed (1/250 sec. - 1/60 sec.) and aperture are set automatically.

Tv : **Enables you to set the desired shutter speed (1/ 250 sec. - 30 sec.).** The flash exposure will be set automatically to match the aperture that was set automatically.

Av : **Enables you to set the desired aperture.** The flash exposure will be set automatically to match the aperture that was set. **The shutter speed will be set automatically between 1/250 sec. - 30 sec. to suit the scene's brightness.**
In low light, the main subject is exposed with the automatic flash, and the background is exposed with a slow shutter speed set automatically. Both the subject and background look properly exposed (automatic slow-speed flash sync).
- With slow shutter speeds, using a tripod is recommended.
- If you do not want a slow shutter speed to be used, set [**C.Fn I -7: Flash sync. speed in Av mode**] to [**1: 1/250-1/60sec. auto**] or [**2: 1/250sec. (fixed)**] (p.175).

M : **You can set both the shutter speed (1/250 sec. - 30 sec., bulb) and aperture.** The flash exposure will be set automatically to match the aperture that was set. The background exposure will vary depending on the shutter speed and aperture.

A-DEP : The flash result will be the same as the <**P**> mode.

Downloaded from ManualsCamera.com Manuals

Effective Range of Built-in Flash

[Approx. meters/feet]

Aperture	ISO Speed							
	100	200	400	800	1600	3200	H1: 6400	H2: 12800
f/3.5	3.7 / 12.1	5.3 / 17.4	7.4 / 24.3	10.5 / 34.4	14.9 / 48.9	21.0 / 68.9	29.7 / 97.4	42.0 / 137.8
f/4	3.3 / 10.8	4.6 / 15.1	6.5 / 21.3	9.2 / 30.2	13.0 / 42.7	18.4 / 60.4	26.0 / 85.3	36.8 / 120.7
f/5.6	2.3 / 7.5	3.3 / 10.8	4.6 / 15.1	6.6 / 21.7	9.3 / 30.5	13.1 / 43.0	18.6 / 61.0	26.3 / 86.3

- For close subjects, the subject should be at least 1 meter/3.3 feet away when using flash.
- Detach the lens hood and keep at least 1 meter/3.3 feet away from the subject.
- If the lens has a hood attached or you are too close to the subject, the bottom of the picture might look dark due to the obstructed flash. If you use a telephoto lens or a fast lens and the flash is still partially obstructed, use an EX-series Speedlite (sold separately).

MENU Using Red-eye Reduction

Using the red-eye reduction lamp before taking a flash picture can reduce red eye. Red-eye reduction will work in any shooting mode except <> <> <>.

- Under the [] tab, select [**Red-eye On/Off**], then press <(SET)>. Select [**On**], then press <(SET)>.
- For flash photography, when you press the shutter button halfway, the red-eye reduction lamp will light. Then when you press the shutter button completely, the picture will be taken.

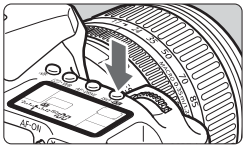
- The red-eye reduction feature is most effective when the subject looks at the red-eye reduction lamp, when the room is well lit, or when you go closer to the subject.
- When you press the shutter button halfway, the viewfinder display on the bottom will gradually turn off. For best results, take the picture after this display turns off.

- The effectiveness of red-eye reduction varies depending on the subject.

Downloaded from ManualsCamera.com Manuals

Flash Exposure Compensation ☆

In the same way as normal exposure compensation, you can set exposure compensation for flash. You can set flash exposure compensation up to ±2 stops in 1/3-stop increments.



1 Press the <ISO·⚡> button. (⏱6)

Increased exposure

Decreased exposure

2 Set the exposure compensation amount.

- While looking at the LCD panel or viewfinder, turn the <◯> dial.
- To cancel the flash exposure compensation, set the flash exposure compensation amount back to <▮>.
- When you press the shutter button halfway, the <⚡> icon will be displayed in the viewfinder and on the LCD panel.

3 Take the picture.

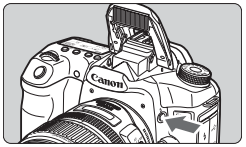
- If [**C.Fn II -4: Auto Lighting Optimizer**] (p.177) has been enabled, the effect of the exposure compensation and flash exposure compensation might be minimized. Set it to [**3: Disable**] if you want to obtain the best results of the exposure compensation setting.
- If you set flash exposure compensation with both the EX-series Speedlite and camera, the Speedlite's flash exposure compensation setting will override the camera's. If you set EX-series Speedlite's flash exposure compensation with the Speedlite, any flash exposure compensation set with the camera will be overridden.

- The exposure compensation amount will remain in effect even after you set the power switch to <OFF>.
- The procedure is the same when using an EX-series Speedlite. The Speedlite's flash exposure compensation can be set with the camera.

Downloaded from ManualsCamera.com Manuals

✳ FE Lock ☆

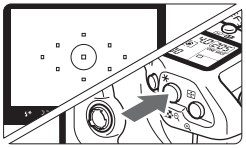
FE (flash exposure) lock obtains and locks the correct flash exposure reading for any part of a subject.



1 Press the <ϟ> button to pop-up the built-in flash.

- Press the shutter button halfway and look in the viewfinder to check that the <ϟ> icon is lit.

2 Focus the subject.



3 Press the <✳> button. (⏱16)

- Aim the viewfinder center over the subject where you want to lock the flash exposure, then press the <✳> button.
- ▶ The flash will fire a preflash and the required flash output is calculated and retained in memory.
- ▶ In the viewfinder, "**FEL**" is displayed for a moment and <ϟ✳> will light.
- Each time you press the <✳> button, a preflash is fired and the required flash output is calculated and retained in memory.

4 Take the picture.

- Compose the shot and press the shutter button completely.
- ▶ The flash is fired to take the picture.

If the subject is too far away and beyond the effective range of the flash, the <ϟ> icon will blink. Get closer to the subject and repeat steps 2 to 4.

Downloaded from ManualsCamera.com Manuals

MENU Flash Control ☆

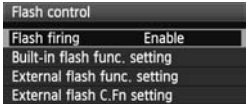
The built-in flash and an external Speedlite can also be set with the menu. The menu for the external Speedlite will be applicable only to **EX-series Speedlites whose functions can be set with the camera**.

Select [Flash control].

- Under the [ ] tab, select [**Flash control**], then press <(SET)>.

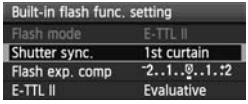
▶ The flash control screen will appear.

About [Flash firing]



- Normally, set this to [**Enable**].
- **If [Disable] is set, both the built-in flash and external Speedlite will not fire.** This is useful when you only want to use the AF-assist beam.

About [Built-in flash func. setting]



- [**Flash mode**] cannot be selected.
- [**Flash exp. comp**] can be set as explained on page 109.
- Set [**E-TTL II**] as explained on the next page.

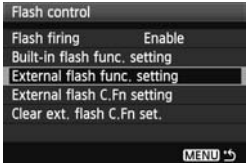
- **Shutter sync.**
  Normally, set this to [**1st curtain**] so that the flash fires immediately after the exposure starts.
  If [**2nd curtain**] is set, the flash will fire right before the exposure ends. When this is combined with a slow sync speed, you can create a trail of light such as from car headlights at night. With 2nd curtain sync, two flashes will be fired, once when you press the shutter button completely, and once immediately before the exposure ends.

Downloaded from ManualsCamera.com Manuals

- **E-TTL II**
  For normal flash exposures, set it to [**Evaluative**].
  If [**Average**] is set, the flash exposure will be averaged for the entire metered scene as with an external metering flash. Flash exposure compensation may be necessary depending on the scene, so this setting is for advanced users.

Setting an External Speedlite

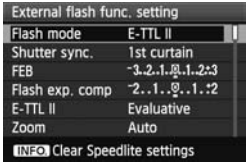
Select either [**External flash func. setting**] or [**External flash C.Fn setting**]. **For details on which external Speedlite settings the camera can set, see the compatible EX-series** (such as the 430EX II) **Speedlite's instruction manual.**
Attach the Speedlite to the camera and turn it on.



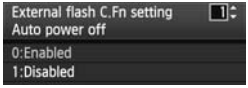
1 Select either [External flash func. setting] or [External flash C.Fn setting].

- Turn the <◌> dial to select the item, then press <(SET)>.
- Settings which cannot be set will be dimmed.

External flash func. setting



External flash C.Fn setting



2 Set the external flash function settings.

- Select a flash function and set it as desired. The procedure is the same as setting a menu function.
- On the flash function settings screen, the settable items or current settings displayed differ depending on the current flash mode settings or flash Custom Function settings.
- If you press the <INFO.> button to clear the Speedlite settings, both the external Speedlite and built-in flash settings will be cleared.

Downloaded from ManualsCamera.com Manuals

External Speedlites

EOS-dedicated, EX-series Speedlites

Basically operates like a built-in flash for easy operation.
When an EX-series Speedlite is attached to the camera, almost all the autoflash control is done by the camera. In other words, it is like a high-output flash attached externally in place of the built-in flash.
For detailed instructions, see the EX-series Speedlite's instruction manual. This camera is a Type-A camera that can use all the features of EX-series Speedlites.

Shoe-mount Speedlites

Macro Lites

- With an EX-series Speedlite not controllable by the camera, only [**Flash exp. comp**] and [**E-TTL II**] can be settable for [**External flash func. setting**] (p.111).
  (For some EX-series Speedlites, [**Shutter sync.**] can also be settable.)
- When the flash metering mode is set to TTL autoflash with the flash's Custom Function, the flash will fire at full output only.

Canon Speedlites other than the EX-series

- **With an EZ/E/EG/ML/TL-series Speedlite set in the TTL or A-TTL autoflash mode, the flash can be fired at full output only.** Set the camera's shooting mode to <**M**> (manual exposure) or <**Av**> (aperture-priority AE) and adjust the aperture setting before shooting.
- When using a Speedlite which has manual flash mode, shoot in the manual flash mode.

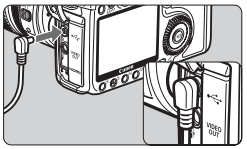
Downloaded from ManualsCamera.com Manuals

Using Non-Canon Flash Units

Sync Speed

The camera can synchronize with non-Canon compact flash units at 1/250 sec. and slower speeds. With large studio flash units, since the flash duration is longer, set the sync speed within 1/60 sec. to 1/30 sec. Be sure to test the flash synchronization before shooting.

PC Terminal



- The camera's PC terminal can be used with flash units having a sync cord. The PC terminal is threaded to prevent inadvertent disconnection.
- The camera's PC terminal has no polarity. You can connect any sync cord regardless of its polarity.

Cautions for Live View shooting

When using a non-Canon flash unit for Live View shooting, set the [**Live View function settings**] menu's [**Silent shoot.**] to [**Disable**]. The flash will not fire if it is set to [**Mode 1**] or [**Mode 2**].

- If the camera is used with a flash unit or flash accessory dedicated to another camera brand, the camera may not operate properly and malfunction may result.
- Do not connect to the camera's PC terminal any flash unit requiring 250 V or more.
- Do not attach a high-voltage flash unit on the camera's hot shoe. It might not fire.

A flash unit attached to the camera's hot shoe and a flash unit connected to the PC terminal can both be used at the same time.

Downloaded from ManualsCamera.com Manuals

6

Live View Shooting

You can shoot while viewing the picture on the camera's LCD monitor. This is called "Live View shooting."

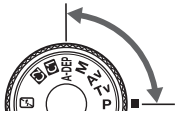
Live View shooting is effective for still subjects which do not move.
If you handhold the camera and shoot while viewing the LCD monitor, camera shake can cause blurred images. Using a tripod is recommended.

About Remote Live View Shooting
With EOS Utility (provided software) installed in your personal computer, you can connect the camera to the personal computer and shoot remotely while viewing the computer screen instead of the camera's viewfinder. For details, see the Software Instruction Manual in the CD-ROM.

Downloaded from ManualsCamera.com Manuals

Preparing for Live View Shooting ☆

Set the camera for Live View shooting.

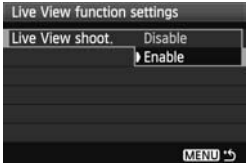


1 Set the shooting mode.

- Set the shooting mode to a Creative Zone mode.
- **Live View shooting does not work in Basic Zone modes.**

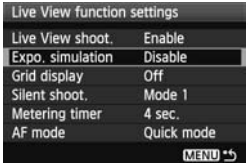
2 Select [Live View function settings].

- Under the [ ] tab, select [**Live View function settings**], then press <SET>.



3 Select [Live View shoot.].

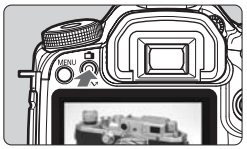
- Turn the <dial> dial to select [**Live View shoot.**], then press <SET>.
- Turn the <dial> dial to select [**Enable**], then press <SET>.



4 Set any other functions.

- If necessary, set the following functions. Refer to the respective page for details.
  - Exposure simulation (p.117)
  - Grid display (p.119)
  - Silent shooting (p.128)
  - Metering timer (p.119)
  - AF mode (p.121)

Downloaded from ManualsCamera.com Manuals



5 Display the Live View image.

- Press the <📷> button.
- ▶ The Live View image will appear on the LCD monitor.
- Press the <📷> button again to turn off the LCD monitor and return to normal shooting.

About [Exposure simulation]

Exposure simulation displays and simulates how the brightness of the actual image will look. The [**Disable**] and [**Enable**] settings are explained below:

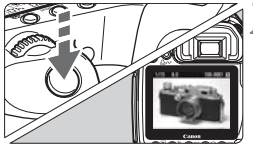
- **Disable**
  The image is displayed at the standard brightness to make the Live View image easy to see.
- **Enable**
  The Live View image will closely reflect the brightness level of the actual image you capture. If you set exposure compensation, the image brightness will change accordingly.

- During Live View shooting, do not point the camera toward the sun. The sun's heat can damage the camera's internal components.
- Notes for using Live View shooting are on pages 129-130.

Downloaded from ManualsCamera.com Manuals

1 Use AF to focus.

- Press the <AF-ON> button.
- ▶ The camera will focus with the current AF mode (p.121).



2 Take the picture.

- Press the shutter button completely.
- ▶ The picture will be taken and the captured image is displayed on the LCD monitor.
- ▶ After the image review ends, the camera will return to Live View shooting automatically.

Operations During Live View Display

- As with normal shooting through the viewfinder, while the Live View image is displayed, you can still use the camera buttons to change settings and playback images.
- When you press the <AF•DRIVE> or <ISO•⚡> button, you can display and change the settings on the LCD monitor. During Live View shooting, the metering mode will be set to evaluative metering regardless of the current metering mode setting.
- To check the depth of field, press the depth-of-field preview button. The image brightness displayed will be close to the actual brightness of the resulting image.
- During continuous shooting, the exposure set for the first shot will also be applied to subsequent shots.
- Using <A-DEP> will be the same as using <P>.

Downloaded from ManualsCamera.com Manuals

- Pressing the <MENU> button will display the menu screen so you can set menu functions. Press the <MENU> button again to return to the Live View image. If you select [**Dust Delete Data**], [**Sensor cleaning**], [**Clear settings**], or [**Firmware Ver.**], the Live View shooting will be terminated.

Battery Life with Live View Shooting [Approx. number of shots]

Temperature	Shooting Conditions	
	No Flash	50% Flash Use
At 23°C / 73°F	180	170
At 0°C / 32°F	140	130

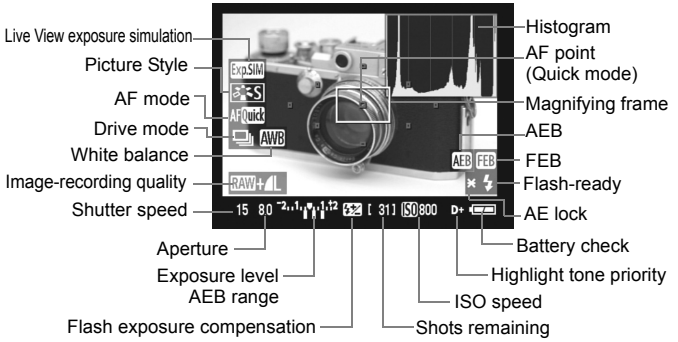
- The figures above are based on a fully-charged Battery Pack BP-511A and CIPA (Camera & Imaging Products Association) testing standards.
- Continuous Live View shooting is possible for about 1 hours at 23°C/73°F (with fully-charged BP-511A).
- Using AF will decrease the number of possible shots.

- The image's field of view is about 100%.
- If the camera is not operated for a prolonged period, the power will turn off automatically as set with [**Auto power off**] (p.44). If [**Auto power off**] is set to [**Off**], the Live View shooting will stop automatically after 30 min. (camera power remains on).
- A grid can be displayed. With the [**Live View function settings**] menu's [**Grid display**], you can set either [**Grid 1**] or [**Grid 2**].
- With the [**Live View function settings**] menu's [**Metering timer**], you can change how long the AE lock's setting is to be retained.
- When you take a picture with flash, the shutter will sound like it took two shots. However, only one shot will be taken.
- With the video cable (provided) or HDMI cable (sold separately), you can display the Live View image on a TV (p.141-142).

Downloaded from ManualsCamera.com Manuals

About the Information Display

- Each time you press the <INFO.> button, the information display will change.



About the <🌡> icon

- If Live View shooting is done under direct sunlight or other high-temperature environments, the <🌡> icon (warning for the camera's high internal temperature) may appear on the screen. If Live View shooting continues with a high internal temperature, it may degrade image quality. You should therefore stop Live View shooting if the warning icon appears.
- If you use a hard disk-type card and Live View shooting continues while the <🌡> warning icon is displayed, the camera's internal temperature will further increase and the Live View shooting will stop automatically. Live View shooting will be disabled until the camera's internal temperature decreases.

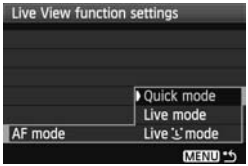
- The histogram and <Exp.SIM> icon are displayed when [**Exposure simulation**] has been set to [**Enable**] (p.117). If <Exp.SIM> is blinking, it indicates that the Live View image is not being displayed at the suitable brightness due to low or bright light conditions. However, the captured image will reflect the exposure setting.
- If flash is used or bulb is set, the <Exp.SIM> icon and histogram will be grayed out (for your reference). The histogram might not be properly displayed in low light or bright light conditions.

Downloaded from ManualsCamera.com Manuals

Using AF to Focus ☆

Selecting the AF Mode

Three AF modes are provided: [**Quick mode**], [**Live mode**] (p.123), and [**Live mode**] (face detection) (p.124). If you want to achieve precise focusing, magnify the image and focus manually (p.127).



Select the AF mode.

- Under [**Live View function settings**], select [**AF mode**].
- While the Live View image is displayed, if you press the <AF•DRIVE> button, you can also select the AF mode with the <> dial.

Quick mode

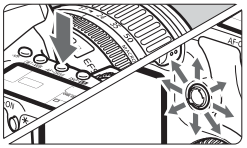
The dedicated AF sensor is used to focus in the One-Shot AF mode (p.84) in the same way (AF method on p.84, 86) as with viewfinder shooting.

Although you can focus the desired area quickly, **the Live View image will be interrupted momentarily during the AF operation**.

1 Display the Live View image.

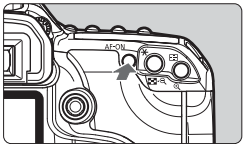
- Press the <> button.
- ▶ The Live View image will appear on the LCD monitor.
- The small box in the screen is the AF point, and the larger box is the magnifying frame (p.120).

Downloaded from ManualsCamera.com Manuals



2 Select the AF point.

- Press the <AF•DRIVE> button, then use <✣> to select the AF point.
- If you keep tilting <✣> in the same direction, it will toggle between manual and automatic AF point selection.



3 Focus the subject.

- Aim the AF point over the subject, and hold down the <AF-ON> button.

▶ The Live View image will turn off, the reflex mirror will go back down, and AF will be executed.

▶ When focus is achieved, the beeper will sound and the Live View image will reappear.
The AF point used to focus will be displayed in red.

4 Take the picture.

- Check the focus and exposure, then press the shutter button to take the picture (p.118).

- You cannot take a picture during autofocusing. Take the picture only while the Live View image is displayed.
- Autofocus will not work with the release button on the Remote Switch RS-80N3 and Timer Remote Controller TC-80N3 (both sold separately).

Downloaded from ManualsCamera.com Manuals

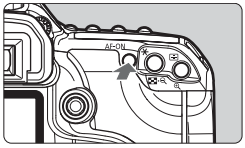
Live Mode

The image sensor is used to focus. Although AF is possible with the Live View image displayed, **the AF operation will take longer than with Quick mode**. Also, achieving focus may be more difficult than with Quick mode.

AF point

1 Display the Live View image.

- Press the <📷> button.
- ▶ The Live View image will appear on the LCD monitor.
- The AF point <□> will appear.
- You can use <✥> to move the AF point to where you want to focus (it cannot go to the edges of the picture). If you press <✥> straight down, the AF point will return to the center.



2 Focus the subject.

- Aim the AF point over the subject, and hold down the <AF-ON> button.
- ▶ When focus is achieved, the AF point will turn green and the beeper will sound.
- ▶ If focus is not achieved, the AF point will turn red.

3 Take the picture.

- Check the focus and exposure, then press the shutter button to take the picture (p.118).

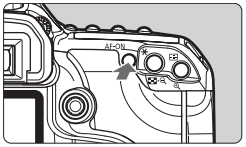
Downloaded from ManualsCamera.com Manuals

Live (Face Detection) Mode

With the same AF method as with the Live mode, the human face is detected and focused. Have the person face the camera.

1 Display the Live View image.

- Press the <> button.
- ▶ The Live View image will appear on the LCD monitor.
- When a face is detected, the <> frame will appear over the face to be focused.
- If multiple faces are detected, <> will be displayed. Use the <> to move the <> frame over the target face.



2 Focus the subject.

- Press the <AF-ON> button to focus the face covered by the <> frame.
- ▶ When focus is achieved, the AF point will turn green and the beeper will sound.
- ▶ If focus is not achieved, the AF point will turn red.
- If a face cannot be detected, the <> AF point will be fixed to the center for focusing.

3 Take the picture.

- Check the focus and exposure, then press the shutter button to take the picture (p.118).

Downloaded from ManualsCamera.com Manuals

- The face-detecting AF point might cover only part of the face.
- An object other than a human face might be detected as a face.
- Face detection will not work if the face is very small or large in the picture, too bright or too dark, titled horizontally or diagonally, or partially hidden.

- When you press <✥> straight down, it will switch to the Live mode (p.123). You can tilt the <✥> to switch to another AF point. If you press <✥> straight down again, it will switch back to Live 😊 (face detection) mode.
- Since AF is not possible with a face detected near the edge of the picture, the <[ ]> will be grayed out. Then when you press the <AF-ON> button, the center AF point <□> will be used to focus.

Live Mode and Live 😊 (Face Detection) Mode Notes

AF operation

- It will take a slightly longer time to focus.
- Even when focus has been achieved, pressing the <AF-ON> button will focus again.
- The image brightness may change during and after the AF operation.
- If the image flickers, making it difficult to focus, stop and resume the Live View shooting under the actual light source to be used. Check that the flickering has stopped, then autofocus.
- If you press the <🔍> button in the Live mode, the AF point area will be magnified. If it is difficult to focus in the magnified view, return to the normal view and autofocus. Note that the AF speed may differ between the normal and magnified views.
- If you autofocus in the Live mode's normal view and then magnify the image, the focus might be off.
- In the Live 😊 mode, pressing the <🔍> button will not magnify the image.

- The AF-assist beam will not be emitted.
- Autofocus will not work with the release button on the Remote Switch RS-80N3 and Timer Remote Controller TC-80N3 (both sold separately).

Downloaded from ManualsCamera.com Manuals

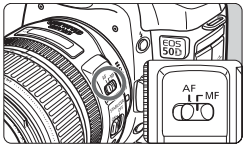
Shooting conditions which can make focusing difficult:

- Low-contrast subjects such as the blue sky and solid-color surfaces.
- Subjects in low light.
- Stripes and other patterns where there is contrast only in the horizontal direction.
- Under a light source whose brightness, color, or pattern keeps changing.
- Night scenes or points of light.
- Under fluorescent lighting or when the image flickers.
- Extremely small subjects.
- Subjects strongly reflecting light.
- The AF point covers both a near and faraway subject (such as an animal in a cage).
- Subjects which keep moving within the AF point and cannot keep still due to camera shake or subject blur.
- A subject approaching or moving away from the camera.
- Autofocusing while the subject is way out of focus.
- Soft focus effect is applied with a soft focus lens.
- A special effects filter is used.

Downloaded from ManualsCamera.com Manuals

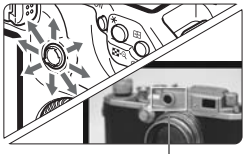
Focusing Manually ☆

Magnify the image and focus manually.



1 Set the lens focus mode switch to <MF>.

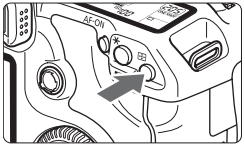
- Turn the lens focusing ring to focus roughly.



Magnifying frame

2 Move the magnifying frame to the position where you want to focus.

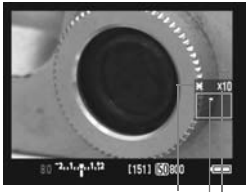
- Use <✣> to move the magnifying frame.
- If you press <✣> straight down, it will return to the image center.



3 Magnify the image.

- Press the <🔍+> button.
- ▶ The image within the magnifying frame will be magnified.
- Each time you press the <🔍+> button, the view will change as follows:

→ 5x → 10x → Normal view



AE lock
Magnified area position
Magnification

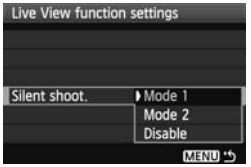
4 Focus manually.

- While looking at the magnified image, turn the lens focusing ring to focus.
- After achieving focus, press the <🔍+> button to return to the normal view.

5 Take the picture.

Downloaded from ManualsCamera.com Manuals

Silent Shooting ☆



Instructions for setting the [**Live View function settings**] menu's [**Silent shoot.**] are explained below.

- **Mode 1**
  The shooting operation noise is quieter than the normal shooting. Continuous shooting is also possible. High-speed continuous shooting will be approx. 5.8 fps.

- **Mode 2**
  When you press the shutter button completely, only one shot will be taken. While you keep holding down the shutter button, the camera operation will be suspended. Then when you return to the shutter button's halfway position, the camera operation will resume and the shooting sound will occur only then. By delaying the shooting sound, the disturbance can be minimized. Even if continuous shooting is set, only a single shot can be taken in this mode.

- **Disable**
  If you use a TS-E lens to make **vertical shift movements** or use an Extension Tube, be sure to set this to [**Disable**]. Setting it to [**Mode 1**] or [**Mode 2**] will result in incorrect or irregular exposures.
  When you press the shutter button completely, the shutter will sound like it took two shots. However, only one shot will be taken.

- If you use flash, the [**Disable**] operation will take effect even if you had set it to [**Mode 1**] or [**Mode 2**].
- When using a non-Canon flash unit, set it to [**Disable**]. (The flash will not fire if [**Mode 1**] or [**Mode 2**] is set.)

Downloaded from ManualsCamera.com Manuals

Notes about the Live View image

- Under low light or bright light conditions, the Live View image might not reflect the brightness of the captured image.
- If the light source within the image changes, the screen might flicker. If this happens, stop and resume the Live View shooting under the actual light source to be used.
- If you point the camera in a different direction, it might throw off the Live View image's correct brightness momentarily. Wait until the brightness level stabilizes before shooting.
- If there is a very bright light source in the picture, such as the sun, the bright area might appear black on the LCD monitor. However, the actual captured image will correctly show the bright area.
- In low light, if you set the [**LCD brightness**] to a bright setting, chrominance noise may appear in the Live View image. However, the chrominance noise will not be recorded in the captured image.
- When you magnify the image, the image sharpness may look more pronounced than it really is.

Notes about the shooting results

- When you use Live View shooting for a long period, the camera's internal temperature may increase and it can degrade image quality. Terminate Live View shooting when not shooting images. Before taking a long exposure, stop Live View shooting temporarily and wait several minutes before shooting.
- High temperatures, high ISO speeds, or long exposures may cause noise or irregular colors in the image captured with Live View shooting.
- If you take the picture while the image is magnified, the exposure might not come out as desired. Return to the normal view before taking the picture. During the magnified view, the shutter speed and aperture will be displayed in red.
- Even if you take the picture during magnified view, the captured image will show the normal view.

Downloaded from ManualsCamera.com Manuals

Notes about Custom Functions

- Live View shooting will disable some Custom Function settings (p.173).
- If [**C.Fn II -4: Auto Lighting Optimizer**] (p.177) is not set to [**3: Disable**], the image will look bright even if a decreased exposure compensation has been set.

Notes about lenses and flash

- The focus preset feature on super telephoto lenses cannot be used.
- FE lock is not possible when the built-in flash or external Speedlite is used. Modeling flash is not possible when external Speedlite is used.

Downloaded from ManualsCamera.com Manuals

7

Image Playback

This chapter explains how to playback and erase images, how to display images on a TV screen, and other playback-related functions.

About images taken with another camera:
The camera might not be able to properly display images captured with a different camera or edited with a personal computer or whose file name was changed.

Downloaded from ManualsCamera.com Manuals

Image Playback

Single Image Display

1 Playback the image.

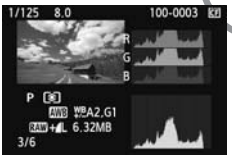
- Press the <▶> button.
- ▶ The last captured image or last image viewed will appear.

2 Select the image.

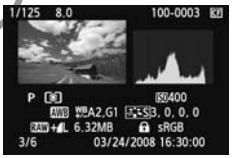
- To playback images starting with the last image, turn the <◌> dial counterclockwise. To playback images starting with the first captured image, turn the dial clockwise.
- Press the <INFO.> button to change the display format.

Single image display

Single image display + Image-recording quality



Histogram display



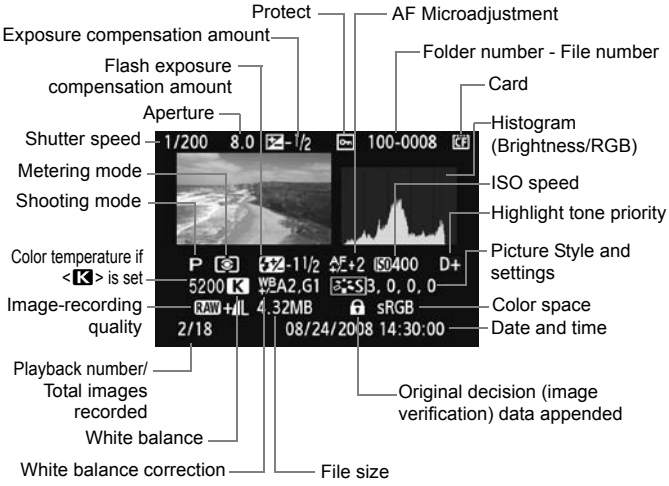
Shooting information display

3 Exit the image playback.

- Press the <▶> button to exit the image playback and return the camera to shooting ready.

Downloaded from ManualsCamera.com Manuals

INFO. Shooting Information Display



* When you shoot in the RAW+JPEG mode, the JPEG image file size will be displayed.

- **About the Highlight Alert**
  When the [**Highlight alert**] menu is set to [**Enable**], overexposed highlight areas will blink. To obtain more image detail in the overexposed areas, set the exposure compensation to a negative amount and shoot again.

- **About the AF Point Display**
  When the [**AF point disp.**] menu is set to [**Enable**], the AF point which achieved focus will be displayed in red. If automatic AF point selection was used, multiple AF points might be displayed in red.

Downloaded from ManualsCamera.com Manuals

- **About the Histogram**
  The brightness histogram display shows the exposure level distribution and overall brightness. And the RGB histogram display is for checking the color saturation and gradation. The display can be switched with the [**Histogram**] menu.

[Brightness] Display

Sample Histograms

Dark image

Normal brightness

Bright image

This histogram is a graph showing the distribution of the image's brightness level. The horizontal axis indicates the brightness level (darker on the left and brighter on the right), while the vertical axis indicates how many pixels exist for each brightness level. The more pixels there are toward the left, the darker the image. And the more pixels there are toward the right, the brighter the image. If there are too many pixels on the left, the shadow detail will be lost. And if there are too many pixels on the right, the highlight detail will be lost. The gradation in-between will be reproduced. By checking the image and its brightness histogram, you can see the exposure level inclination and the overall tone reproduction.

[RGB] Display

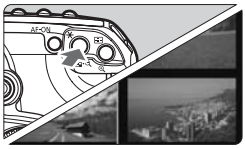
This histogram is a graph showing the distribution of the image's brightness level of each primary color (RGB or red, green, and blue). The horizontal axis indicates the color's brightness level (darker on the left and brighter on the right), while the vertical axis indicates how many pixels exist for each color brightness level. The more pixels there are toward the left, the darker and less prominent the color. And the more pixels there are toward the right, the brighter and denser the color. If there are too many pixels on the left, the respective color information will be lacking. And if there are too many pixels on the right, the color will be too saturated with no detail. By checking the image's RGB histogram, you can see the color's saturation and gradation condition and white balance inclination.

Downloaded from ManualsCamera.com Manuals

Searching for Images Quickly

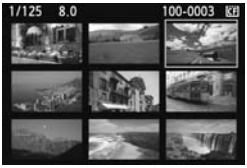
Display Multiple Images on One Screen (Index display)

Search for images quickly with the index display showing four or nine images on one screen.



1 Turn on the index display.

- During image playback, press the <▪·🔍> button.
- ▶ The 4-image index display will appear. The currently-selected image will be highlighted in a blue frame.
- Press the <▪·🔍> button again to switch to the 9-image index display.



2 Select the image.

- Turn the <◌> dial to move the blue frame to select the image.
- Press the <🔍> button to display the selected image in the normal view. (9 images → 4 images → 1 image)

Downloaded from ManualsCamera.com Manuals

Jump through Images (Jump display)

With the single image display, index display, and magnified view, you can turn the <dial> dial to jump through the images.

1 Select the jump method.

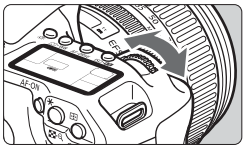
- With the [**Image jump w/**] menu's [**1 image/10 images/100 images/Screen/Date/Folder**] option, you can set the desired jump method.
- With the index display, you can jump by a single screen by selecting [**Screen**].
- If you want to jump by date, select [**Date**]. To jump by folder, select [**Folder**].

Jump method

Image location

2 Browse by jumping.

- During image playback, turn the <dial> dial.
- ▶ The jump display will proceed according to the selected jump method.
- ▶ On the bottom right, the jump method and current image location are indicated.



Downloaded from ManualsCamera.com Manuals

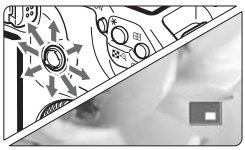
Magnified View

You can magnify the image by 1.5x to 10x on the LCD monitor.

Magnified area position

1 Magnify the image.

- During image playback, press the <🔍+> button.
- ▶ The image will be magnified.
- To increase the magnification, hold down the <🔍+> button. The image will continue to be magnified until it reaches the maximum magnification.
- Press the <▪/🔍-> button to reduce the magnification. If you hold down the button, the image will continue to reduce to the single image display.



2 Scroll around the image.

- Use <✥> to scroll around the magnified image.
- To exit the magnified display, press the <▶> button and the single-image display will return.

- During the magnified view, you can turn the <◯> (or <⌓>) dial to view another image at the same magnification and position (the display jumps according to the selected jump method).
- Magnified view is not possible during the image review immediately after the image is taken.

Downloaded from ManualsCamera.com Manuals

Rotating the Image

You can rotate the image to the desired orientation.

1 Select [Rotate].

- Under the [▶] tab, select [**Rotate**], then press <(SET)>.

2 Select the image.

- Turn the <◯> dial to select the image to be rotated.
- You can also select an image on the index display.

3 Rotate the image.

- Each time you press <(SET)>, the image will rotate clockwise as follows: 90° → 270° → 0°
- To rotate another image, repeat steps 2 and 3.
- To exit and return to the menu, press the <MENU> button.

- If you have set [**Auto rotate**] to [**On**] (p.146) before taking vertical shots, you need not rotate the image as described above.
- If the rotated image is not displayed in the rotated orientation during image playback, set the [**Auto rotate**] menu to [**On**].

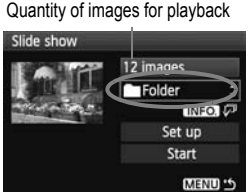
Downloaded from ManualsCamera.com Manuals

MENU Auto Playback (Slide Show)

You can playback the images in the card as an automatic slide show.

1 Select [Slide show].

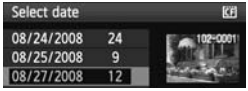
- Under the [ ] tab, select [**Slide show**], then press <SET>.
- ▶ The slide show setting screen appears.



2 Select the images to be played back.

- Turn the <dial> dial to select the item, then press <SET>.
- Turn the <dial> dial to select the desired playback images, then press <SET>.

Item	Playback Images
All images	All the images in the card will be played back.
Folder	Images in the selected folder will be played back.
Date	Images taken on the selected shooting date will be played back.



Selecting the [Folder] and [Date]

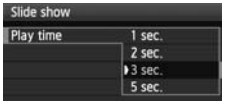
- Turn the <dial> dial to select the [**Folder**] or [**Date**].
- When <INFO.> is displayed brightly, press the <INFO.> button.
- Turn the <dial> dial to select the folder or date, then press <SET>.

Downloaded from ManualsCamera.com Manuals

3 Set the Play time and Repeat options.

- Turn the <◌> dial to select [**Set up**], then press <(SET)>.
- Set the [**Play time**] and [**Repeat**] options, then press the <MENU> button.

[**Play time**]



[**Repeat**]

4 Start the slide show.

- Turn the <◌> dial to select [**Start**], then press <(SET)>
- ▶ After [**Loading image...**] is displayed for a few seconds, the slide show will start.
- To pause the slide show, press <(SET)>.
- During pause, [II] will be displayed on the upper left of the image. Press <(SET)> again to resume the slide show.

5 Quit the slide show.

- To quit the slide show and return to the setting screen, press the <MENU> button.

- During pause, you can turn the <◌> dial to view another image.
- During the slide show, auto power off will not work.
- The display time may vary depending on the image.
- To view the slide show on a TV set, see page 141.

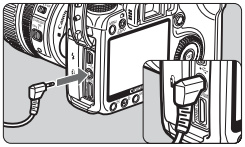
Downloaded from ManualsCamera.com Manuals

Viewing the Images on TV

You can also view the images on a TV set. Turn off the camera and the television before connecting them.

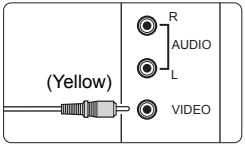
* Depending on the TV monitor, part of the image might be cut off.

Viewing on Non-HD (Hi-Definition) TV Sets



1 Connect the provided video cable to the camera.

- Connect the video cable to the camera's <**VIDEO OUT**> terminal.
- Insert the cable plug all the way in.

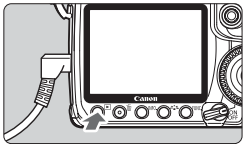


2 Connect the video cable to the TV set.

- Connect the video cable to the TV's video IN terminal.

3 Turn on the TV and switch the TV's video input to select the connected terminal.

4 Set the camera's power switch to <ON>.



5 Press the <▶> button.

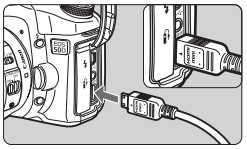
▶ The image will appear on the TV screen. (Nothing will be displayed on the camera's LCD monitor.)

- If the video system format does not match the TV's, the images will not be displayed properly. Set the proper video system format with [**Video system**].
- Do not use any video cable other than the one provided. Images might not be displayed if you use a different video cable.

Downloaded from ManualsCamera.com Manuals

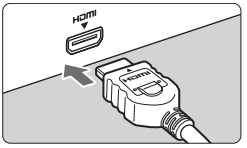
Viewing on HD (Hi-Definition) TV Sets

The HDMI Cable HTC-100 (sold separately) is required.



1 Connect the HDMI cable to the camera.

- Connect the HDMI cable to the camera's <**HDMI OUT**> terminal.
- With the plug's <**▲HDMI MINI**> logo facing the front of the camera, insert it into the camera's <**HDMI OUT**> terminal.

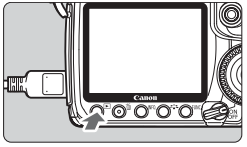


2 Connect the HDMI cable to the TV set.

- Connect the HDMI cable to the TV's HDMI IN port.

3 Turn on the TV and switch the TV's video input to select the connected port.

4 Set the camera's power switch to <ON>.



5 Press the <▶> button.

- ▶ The image will appear on the TV screen. (Nothing will be displayed on the camera's LCD monitor.)
- The images will be displayed automatically at the TV's optimum resolution.

- Do not connect any other device to the camera's <**HDMI OUT**> terminal. Doing so may cause malfunction.
- Some TVs might not be able to display the captured images. In such a case, use the provided video cable to connect to the TV.
- The camera's <**VIDEO OUT**> terminal and <**HDMI OUT**> terminal cannot be used at the same time.

Downloaded from ManualsCamera.com Manuals

Protecting Images

Protecting the image prevents it from being erased accidentally.

1 Select [Protect images].

- Under the [▶*] tab, select [**Protect images**], then press <(SET)>.

▶ The protect setting screen will appear.

Image protect icon

2 Select the image and protect it.

- Turn the <◯> dial to select the image to be protected, then press <(SET)>.

▶ When an image is protected, the <🔑> icon will appear on the screen.

- To cancel the image protection, press <(SET)> again. The <🔑> icon will disappear.
- To protect another image, repeat step 2.
- To exit the image protection, press the <MENU> button. The menu will reappear.

If you format the card (p.43)**, the protected images will also be erased.**

- Once an image is protected, it cannot be erased by the camera's erase function. To erase a protected image, you must first cancel the protection.
- If you erase all the images (p.144), only the protected images will remain. This is convenient when you want to erase unnecessary images all at once.

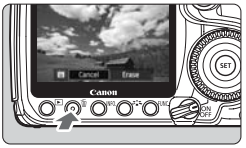
Downloaded from ManualsCamera.com Manuals

Erasing Images

You can either select and erase images one by one or erase them in one batch. Protected images (p.143) will not be erased.

Once an image is erased, it cannot be recovered. Make sure you no longer need the image before erasing it. To prevent important images from being erased accidentally, protect it.

Erasing a Single Image



1 Playback the image to be erased.

2 Press the <🗑> button.

- The erase menu will appear at the bottom of the screen.

3 Erase the image.

▶ Select [**Erase**], then press <(SET)>. The image displayed will be erased.

MENU Checkmarking <✓> Images to be Erased in a Batch

By checkmarking the images to be erased, you can erase multiple images at one time. On the [▶ **Erase images**] menu, select [**Select and erase images**]. By pressing the <▪·🔍> button, you can switch to a three-image display on the screen. With <(SET)>, checkmark <✓> the images to be erased. Then press the <🗑> button.

MENU Erasing All Images in a Folder or Card

You can erase all the images in a folder or card at one time. When the [▶ **Erase images**] menu is set to [**All images in folder**] or [**All images on card**], all the images in the folder or card will be erased.

Downloaded from ManualsCamera.com Manuals

Changing Image Playback Settings

MENU Adjusting the LCD Monitor Brightness

You can adjust the brightness of the LCD monitor to make it easier to read.

1 Select [LCD brightness].

- Under the [Y:] tab, select [**LCD brightness**], then press <(SET)>.

2 Adjust the brightness.

- While referring to the gray chart, turn the <◯> dial, then press <(SET)>.
- You can also display the [**LCD brightness**] screen with the <FUNC.> button.

To check the image's exposure, you should look at the histogram (p.134).

MENU Setting the Image Review Time

You can set how long the image is displayed on the LCD monitor immediately after capture. To keep the image displayed, set [**Hold**]. To not have the image displayed, set [**Off**].

1 Select [Review time].

- Under the [□•] tab, select [**Review time**], then press <(SET)>.

2 Set the desired time.

- Turn the <◯> dial to select the setting, then press <(SET)>.

If [**Hold**] is set, the image will be displayed until the auto power off time elapses.

Downloaded from ManualsCamera.com Manuals

MENU Auto Rotate of Vertical Images

Vertical images are rotated automatically so they are displayed vertically on the camera's LCD monitor and personal computer instead of horizontally. The setting of this feature can be changed.

1 Select [Auto rotate].

- Under the [🔧*] tab, select [**Auto rotate**], then press <(SET)>.

2 Set the auto rotate.

- Turn the <◌> dial to select the setting, then press <(SET)>.

- **On** 📷 🖥
  The vertical image is automatically rotated on both the camera's LCD monitor and on the personal computer.
- **On** 🖥
  The vertical image is automatically rotated only on the personal computer.
- **Off**
  The vertical image is not rotated.

Auto rotate will not work with vertical images captured while Auto rotate was [**Off**]. They will not rotate even if you later switch it to [**On**] for playback.

- Immediately after image capture, the vertical image will not be automatically rotated for the image review.
- If the vertical image is taken while the camera is pointed up or down, the image might not rotate automatically for playback.
- If the vertical image is not automatically rotated on the personal computer screen, it means the software you are using is unable to rotate the image. Using the provided software is recommended.

Downloaded from ManualsCamera.com Manuals

8

Sensor Cleaning

The camera has a Self Cleaning Sensor Unit attached to the image sensor's front layer (low-pass filter) to shake off dust automatically.
The Dust Delete Data can also be appended to the image so that the dust spots remaining can be erased automatically by Digital Photo Professional (provided software).

Minimizing Dust

- When changing lenses, do it in a place with minimal dust.
- When storing the camera without a lens attached, be sure to attach the body cap to the camera.
- Remove dust on the body cap before attaching it.

Even while the Self Cleaning Sensor Unit is operating, you can press the shutter button halfway to interrupt the cleaning and start shooting immediately.

Downloaded from ManualsCamera.com Manuals

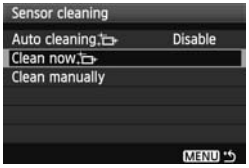
MENU Automatic Sensor Cleaning

Whenever you set the power switch to <ON/⤾> or <OFF>, the Self Cleaning Sensor Unit operates to automatically shake off the dust on the front of the sensor. Normally, you need not be aware of this operation. However, you can execute the sensor cleaning at anytime as well as disable it.

Cleaning the Sensor Now

1 Select [Sensor cleaning].

- Under the [🔧] tab, select [**Sensor cleaning**], then press <(SET)>.



2 Select [Clean now].

- Turn the <◯> dial to select [**Clean now**], then press <(SET)>.
- Select [**OK**], then press <(SET)>.

▶ The screen will indicate that the sensor is being cleaned. Although there will be a shutter sound, a picture is not taken.

- For best results, do the sensor cleaning while the camera bottom is placed on a table or other surface at a perpendicular angle.
- Even if you repeat the sensor cleaning, the result will not improve that much. Right after the sensor cleaning is finished, the [**Cleaning now**] option will remain disabled temporarily.

Disabling Automatic Sensor Cleaning

- In step 2, select [**Auto cleaning**] and set it to [**Disable**].

▶ The sensor cleaning will no longer be executed when you set the power switch to <ON/⤾> or <OFF>.

Downloaded from ManualsCamera.com Manuals

MENU Appending Dust Delete Data ☆

Normally, the Self Cleaning Sensor Unit will eliminate most of the dust that might be visible on captured images. However, in case visible dust still remains, you can append the Dust Delete Data to the image to later erase the dust spots. The Dust Delete Data is used by Digital Photo Professional (provided software) to erase the dust spots automatically.

Preparation

- Get a solid-white object (paper, etc.).
- Set the lens focal length to 50mm or longer.
- Set the lens focus mode switch to <**MF**> and set the focus to infinity (∞). If the lens has no distance scale, look at the front of the lens and turn the focusing ring clockwise all the way.

Obtain the Dust Delete Data

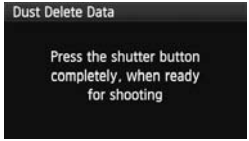
1 Select [Dust Delete Data].

- Under the [📷] tab, select [**Dust Delete Data**], then press <(SET)>.

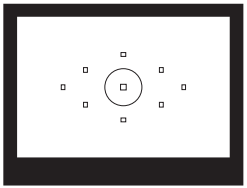
Dust Delete Data
Obtaining the data for erasing dust with software. Refer to Instruction Manual.
Updated : 08/24/'08 13:10
Cancel
OK

2 Select [OK].

- Turn the <◌> dial to select [**OK**], then press <(SET)>. After the automatic sensor cleaning ends, a message will appear. Although there will be a shutter sound, a picture is not taken.



Downloaded from ManualsCamera.com Manuals



3 Photograph a solid-white object.

- At a distance of 20 cm - 30 cm / 0.7 ft. - 1.0 ft., fill the viewfinder with a patternless, solid-white object and take a picture.

▶ The picture will be taken in the aperture-priority AE mode with an aperture of f/22.

- Since the image will not be saved, the data can still be obtained even if there is no card in the camera.

▶ When the picture is taken, the camera will start obtaining the Dust Delete Data. When the Dust Delete Data is obtained, a message will appear.
Select [**OK**], and the menu will reappear.

- If the data was not obtained successfully, a message to that effect will appear. Follow the “Preparation” procedure on the preceding page, then select [**OK**]. Take the picture again.

About the Dust Delete Data

After the Dust Delete Data is obtained, it is appended to all the JPEG and RAW images captured thereafter. Before an important shoot, you should update the Dust Delete Data by obtaining it again.
To erase dust spots automatically with the bundled software, see the Software Instruction Manual in the CD-ROM.
The Dust Delete Data appended to the image is so small that it hardly affects the image file size.

Be sure to use a solid-white object such as a new sheet of white paper. If the paper has any pattern or design, it may be recognized as dust data and affect the accuracy of the dust deletion with the software.

Downloaded from ManualsCamera.com Manuals

MENU Manual Sensor Cleaning ☆

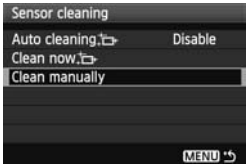
Dust which could not be removed by the automatic sensor cleaning can be removed manually with a blower, etc.

The surface of the image sensor is extremely delicate. If the sensor needs to be cleaned directly, having it done by a Canon Service Center is recommended.

Before cleaning the sensor, detach the lens from the camera.

1 Select [Sensor cleaning].

- Under the [🔧] tab, select [**Sensor cleaning**], then press <SET>.



2 Select [Clean manually].

- Turn the <dial> dial to select [**Clean manually**], then press <SET>.

3 Select [OK].

- Turn the <dial> dial to select [**OK**], then press <SET>.
- ▶ In a moment, the mirror will lockup and the shutter will open.
- "**CLEA n**" will blink on the LCD panel.

4 End the cleaning.

- Set the power switch to <OFF>.

- For the power source, using the AC Adapter Kit ACK-E2 (sold separately) is recommended.
- If you use the battery, make sure it is fully recharged. If a battery grip with size-AA/LR6 batteries is attached, manual sensor cleaning will not be possible.

Downloaded from ManualsCamera.com Manuals

- **While cleaning the sensor, never do any of the following. Doing any of the following will cut off the power and close the shutter. The shutter curtains and image sensor might get damaged.**
  - **• Setting the power switch to <OFF>.**
  - **• Opening the battery compartment cover.**
  - **• Opening the card slot cover.**
- The surface of the image sensor is extremely delicate. Clean the sensor with care.
- Use a plain blower without any brush attached. A brush can scratch the sensor.
- Do not insert the blower tip inside the camera beyond the lens mount. If the power is turned off, the shutter will close and the shutter curtains or reflex mirror might get damaged.
- Never use canned air or gas to clean the sensor. The blowing force can damage the sensor or the spray gas can freeze on the sensor.

Downloaded from ManualsCamera.com Manuals

9

Printing Images and Transferring Images to a Computer

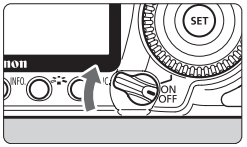
- **Printing** (p.154)
  You can connect the camera directly to a printer and print out the images in the card. The camera is compatible with "PictBridge" which is the standard for direct printing.
- **Digital Print Order Format (DPOF)** (p.163)
  DPOF (Digital Print Order Format) enables you to print images recorded in the card according to your printing instructions such as the image selection, quantity to print, etc. You can print multiple images in one batch or give the print order to a photofinisher.
- **Transferring Images to a Personal Computer** (p.167)
  By connecting the camera to a personal computer, you can transfer images from the camera's card by operating the camera.

Downloaded from ManualsCamera.com Manuals

Preparing to Print

You do the direct printing procedure entirely with your camera while you look at the LCD monitor.

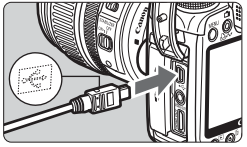
Connecting the Camera to a Printer



1 Set the camera's power switch to <OFF>.

2 Set up the printer.

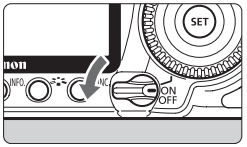
- For details, see the printer's instruction manual.



3 Connect the camera to the printer.

- Use the interface cable that came with the camera.
- When connecting the cable plug to the camera's <⇠> terminal, the cable plug's <⇠> icon must face the front side of the camera.
- To connect to the printer, refer to the printer's instruction manual.

4 Turn on the printer.



5 Set the camera's power switch to <ON>.

▶ Some printers may make a beeping sound.

Downloaded from ManualsCamera.com Manuals

PictBridge

6 Playback the image.

- Press the <▶> button.
- ▶ The image will appear, and the <PictBridge> icon will appear on the upper left to indicate that the camera is connected to a printer.
- ▶ The <PictBridge> button lamp will light in blue.

- The camera cannot be used with printers compatible only with CP Direct or Bubble Jet Direct.
- When connecting the camera to the printer, do not use any cable other than the interface cable provided.
- If there is a long beeping sound in step 5, it indicates a problem with the printer. To find out what's wrong, do the following:
  1. Press the <▶> button to playback the image.
  2. Press <(SET)>.
  3. On the print setting screen, select [**Print**].

  The error message will be displayed on the LCD monitor (p.162).

- You can also print RAW images taken by this camera.
- If you use the battery to power the camera, make sure it is fully charged. With a fully-charged battery, printing up to about 3 hours is possible.
- Before disconnecting the cable, turn off the camera and printer first. Hold the plug (not the cord) to pull out the cable.
- For direct printing, using AC Adapter Kit ACK-E2 (sold separately) to power the camera is recommended.

Downloaded from ManualsCamera.com Manuals

Printing

The screen display and setting options will differ depending on the printer. Some settings might not be available. For details, see the printer's instruction manual.

Printer-connected icon

1 Select the image to be printed.

- Check that the <🖌> icon is displayed on the upper left of the LCD monitor.
- Turn the <◌> dial to select the image to be printed.

2 Press <(SET)>.

▶ The print setting screen will appear.

Print setting screen

Sets the printing effects (p.158).
Sets the date or file number imprinting to on or off.
Sets the quantity to be printed.
Sets the trimming (p.161).
Sets the paper size, type, and layout.
Returns to step 1.
Starts the printing.

The paper size, type, and layout you have set will be displayed.

*** Depending on the printer, settings such as the date and file number imprinting and trimming might not be available.**

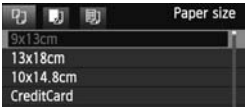
3 Select [Paper settings].

- Select [**Paper settings**], then press <(SET)>.

▶ The paper settings screen will appear.

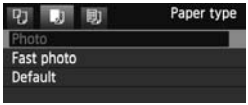
Downloaded from ManualsCamera.com Manuals

Setting the Paper Size



- Select the size of the paper loaded in the printer, then press <(SET)>.
- ▶ The paper type screen will appear.

Setting the Paper Type



- Select the type of the paper loaded in the printer, then press <(SET)>.
- When using a Canon printer and Canon paper, read the printer's instruction manual to check what paper types can be used.
- ▶ The page layout screen will appear.

Setting the Page Layout

- Select the page layout, then press <(SET)>.
- ▶ The print setting screen will reappear.

Bordered	The print will have white borders along the edges.
Borderless	The print will have no white borders. If your printer cannot print borderless prints, the print will have borders.
Bordered	The shooting information* will be imprinted on the border on 9x13cm and larger prints.
xx-up	Option to print 2, 4, 8, 9, 16, or 20 images on one sheet.
20-up **35-up**	On A4 or Letter size paper, 20 or 35 thumbnails of the images ordered through DPOF (p.163) will be printed. • [**20-up**] will have the shooting information* imprinted.
Default	The page layout will vary depending on the printer type or its settings.

* From the Exif data, the camera name, lens name, shooting mode, shutter speed, aperture, exposure compensation amount, ISO speed, white balance, etc., will be imprinted.

Downloaded from ManualsCamera.com Manuals

4 Set the printing effects.

- Set as necessary. If you need not set any printing effects, go to step 5.
- **The screen display may differ depending on the printer.**
- Select the option on the upper right, then press <(SET)>. Select the desired printing effect, then press <(SET)>.
- If the <☰> icon is displayed next to <INFO.>, you can also adjust the printing effect (p.160).

Item	Description
On	The image will be printed according to the printer's standard colors. The image's Exif data is used to make automatic corrections.
Off	No automatic correction will be performed.
Vivid	The image will be printed with higher saturation to produce more vivid blues and greens.
NR	The image noise is reduced before printing.
B/W B/W	Prints in black-and-white with true blacks.
B/W Cool tone	Prints in black-and-white with cool, bluish blacks.
B/W Warm tone	Prints in black-and-white with warm, yellowish blacks.
Natural	Prints the image in the actual colors and contrast. No automatic color adjustments will be applied.
Natural M	The printing characteristics are the same as the "Natural" setting. However, this setting enables finer printing adjustments than with "Natural."
Default	The printing will differ depending on the printer. For details, see the printer's instruction manual.

* **When you change the printing effects, it is reflected in the image displayed on the upper left. Note that the printed image might look slightly different from the displayed image which is only an approximation. This also applies to [Brightness] and [Adjust levels] on page 160.**

Downloaded from ManualsCamera.com Manuals

5 Set the date and file number imprinting.

- Set as necessary.
- Select <⊡>, then press <(SET)>.
- Set as desired, then press <(SET)>.

6 Set the number of copies.

- Set as necessary.
- Select <⊡>, then press <(SET)>.
- Set the number of copies, then press <(SET)>.

7 Start printing.

- Select [**Print**], then press <(SET)>.
- ▶ The <⊡> button's blue lamp will blink and the printing will start.

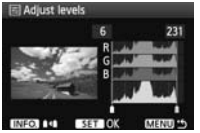
- With Easy printing, you can print another image with the same settings. Just select the image and press the <⊡> button lit in blue. With Easy printing, the number of copies will always be 1. Also, any trimming will not be applied.
- For details on trimming, see page 161.
- The [**Default**] setting for printing effects and other options are the printer's own default settings as set by the printer's manufacturer. See the printer's instruction manual to find out what the [**Default**] settings are.
- Depending on the image's file size and image-recording quality, it may take some time for the printing to start after you select [**Print**].
- If image tilt correction (p.161) has been applied, it will take longer to print the image.
- To stop the printing, press <(SET)> while [**Stop**] is displayed, then select [**OK**].

Downloaded from ManualsCamera.com Manuals

Adjustment of Printing Effects

In step 4 on page 158, select the printing effect. When the <▤> icon is displayed next to <INFO.>, press the <INFO.> button. You can then adjust the printing effect. What can be adjusted or what is displayed will depend on the selection made in step 4.

- **Brightness**
  The image brightness can be adjusted.
- **Adjust levels**
  When you select [**Manual**], you can change the histogram's distribution and adjust the image's brightness and contrast.
  With the Adjust levels screen displayed, press the <INFO.> button to change the position of the <▮>. Turn the <◌> dial to freely adjust the shadow level (0 - 127) or highlight level (128 - 255).



- **Brightener**
  Effective in backlit conditions which can make the subject's face look dark. When [**On**] is set, the face will be brightened for printing.
- **Red-eye corr.**
  Effective in flash images where the subject has red eye. When [**On**] is set, the red eye will be corrected for printing.

- The [**Brightener**] and [**Red-eye corr.**] effects will not show up on the screen.
- When you select [**Detail set.**], you can adjust the [**Contrast**], [**Saturation**], [**Color tone**], and [**Color balance**]. To adjust the [**Color balance**], use <✣>. B is for blue, A is amber, M is magenta, and G is green. The color in the respective direction will be corrected.
- If you select [**Clear all**], all the printing effect settings will be reverted to the default.

Downloaded from ManualsCamera.com Manuals

Trimming the Image

You can crop the image and print only the trimmed portion as if the image was recomposed. **Do the trimming right before printing.** If you set the trimming and then set the print settings, you may have to set the trimming again.

1 On the print setting screen, select [Trimming].

2 Set the trimming frame size, position, and proportion.

- The image area within the trimming frame will be printed. The trimming frame's vertical-to-horizontal proportion can be changed with [**Paper settings**].

Changing the trimming frame size

When you press the <🔍+> or <▪🔍-> button, the size of the trimming frame will change. The smaller the trimming frame, the larger the image magnification will be for the printing.

Moving the trimming frame

Use <✥> to move the frame over the image vertically or horizontally. Move the trimming frame until it covers the desired image area or composition.

Rotating the frame

Each time you press the <INFO.> button, the trimming frame will toggle between the vertical and horizontal orientations. This enables you to create a vertical-oriented print from a horizontal image.

Image tilt correction

By turning the <◌> dial, you can adjust the image tilt angle by ±10 degrees in 0.5-degree increments. When you adjust the image tilt, the <⧉> icon on the screen will turn blue.

3 Press <(SET)> to exit the trimming.

- ▶ The print setting screen will reappear.
- You can check the trimmed image area on the upper left of the print setting screen.

Downloaded from ManualsCamera.com Manuals

- Depending on the printer, the trimmed image area might not be printed as you specified.
- The smaller you make the trimming frame, the grainier the picture will look on the print.
- While trimming the image, look at the camera's LCD monitor. If you look at the image on a TV screen, the trimming frame might not be displayed accurately.

Handling Printer Errors

If you resolve a printer error (no ink, no paper, etc.) and select [**Continue**] to resume printing but it does not resume, operate the buttons on the printer to resume printing. For details, see the printer's instruction manual.

Error Messages

If a problem occurs during printing, an error message will appear on the camera's LCD monitor. Press <(SET)> to stop printing. After fixing the problem, resume printing. For details on how to fix a printing problem, refer to the printer's instruction manual.

Paper Error
Check whether the paper is properly loaded in the printer.

Ink Error
Check the printer's ink level, and check the waste ink tank.

Hardware Error
Check for any printer problems other than paper and ink problems.

File Error
The selected image cannot be printed via PictBridge. Images taken with a different camera or images edited with a computer might not be printable.

Downloaded from ManualsCamera.com Manuals

Digital Print Order Format (DPOF)

You can set the print type, date imprinting, and file No. imprinting. The print settings will be applied to all print-ordered images. (They cannot be set individually for each image.)

Setting the Printing Options

1 Select [Print order].

▶ Under the [ ] tab, select [**Print order**], then press <(SET)>.

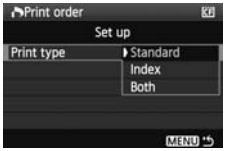
2 Select [Set up].

- Select [**Set up**], then press <(SET)>.

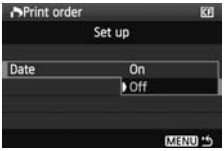
3 Set the option as desired.

- Set the [**Print type**], [**Date**], and [**File No.**].
- Select the option, then press <(SET)>. Select the desired setting, then press <(SET)>.

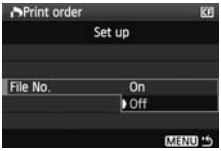
[**Print type**]



[**Date**]



[**File No.**]



Downloaded from ManualsCamera.com Manuals

Print type		Standard	Prints one image on one sheet.
		Index	Multiple, thumbnail images are printed on one sheet.
		Both	Prints both the standard and index prints.
Date	On	[**On**] imprints the recorded date on the print.	
	Off		
File number	On	[**On**] imprints the file No. on the print.	
	Off		

4 Exit the setting.

- Press the <MENU> button.

▶ The print order screen will reappear.

- Next, select [**Sel.Image**], [**By ■**], or [**All image**] to order the images to be printed.

- Even if [**Date**] and [**File No.**] are set to [**On**], the date or file No. might not be imprinted depending on the print type setting and printer model.
- When printing with DPOF, you must use the card whose print order specifications have been set. It will not work if you just extract images from the card and try to print them.
- Certain DPOF-compatible printers and photofinishers might not be able to print the images as you specified. If this happens with your printer, refer to the printer's instruction manual. Or check with your photofinisher about compatibility when ordering prints.
- Do not insert into the camera a card whose print order was set by a different camera and then try to specify a print order. The print order may not work or may be overwritten. Also, depending on the image type, the print order may not be possible.

- Print ordering will not work with RAW images.
- With [**Index**] prints, both the [**Date**] and [**File No.**] cannot be set to [**On**] at the same time.

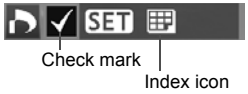
Downloaded from ManualsCamera.com Manuals

Print Ordering

- **Sel.Image**

Select and order images one by one. Press the <▪▪·🔍> button to display the three-image view. To return to the single-image display, press the <🔍> button. After completing the print order, press the <MENU> button to save the print order to the card.

[Standard] [Both]
Press <(SET)> and a print order for 1 copy of the displayed image will be placed. Then turn the <◌> dial to set the number of copies (up to 99) to be printed for that image.



[Index]
Press <(SET)>, and the displayed image will be included in the index print. The <✓> icon will also appear on the upper left.

- **By▬**
  Select [**By▬**] and select the folder. A print order for 1 copy of all the images in the folder will be placed. If you select Clear all and a folder, the print order for all the images in the folder will be canceled.

- **All image**
  A print order for 1 copy of all the images in the card will be placed. If you select Clear all, the print order for all the images in the card will be canceled.

- Note that RAW images will not be included in the print order even if you set “All image.”
- When using a PictBridge printer, print no more than 400 images for one print order. If you specify more than this, all the images might not be printed.

Downloaded from ManualsCamera.com Manuals

Direct Printing with DPOF

With a PictBridge printer, you can easily print images with DPOF.

1 Preparing to print.

- See page 154.
  Follow the “Connecting the Camera to a Printer” procedure up to step 5.

2 Under the [ ] tab, select [Print order].

3 Select [Print].

- [**Print**] will be displayed only if the camera is connected to the printer and printing is possible.

4 Set the [Paper settings]. (p.156)

- Set the printing effects (p.158) if necessary.

5 Select [OK].

- Before printing, be sure to set the paper size.
- Certain printers cannot imprint the file No.
- If [**Bordered**] is set, the date might be imprinted on the border, depending on the printer.
- Depending on the printer, the date might look light if it is imprinted on a bright background or on the border.

- Under [**Adjust levels**], [**Manual**] cannot be selected.
- If you stopped the printing and want to resume printing the remaining images, select [**Resume**]. Note that printing will not resume if you stop the printing and any of the following occurs:
  - Before resuming, you changed the print order or erased any images selected for the print order. For index printing, you changed the paper settings before resuming the printing. Or the card’s remaining capacity was low when the printing was stopped.
- If a problem occurs during printing, see page 162.

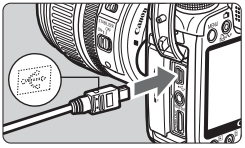
Downloaded from ManualsCamera.com Manuals

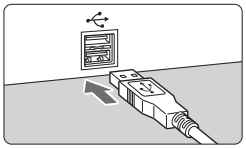
Transferring Images to a Personal Computer

By connecting the camera to a personal computer, you can transfer images from the camera's card by operating the camera. This feature is called direct image transfer.

Before connecting the camera to a personal computer, be sure to install the provided software (EOS DIGITAL Solution Disk on CD-ROM) in the personal computer.
For instructions to install the provided software, see the separate sheet, CD-ROM Guide.

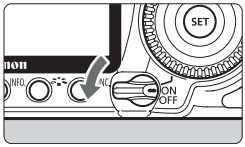
Preparation for Image Transfer





1 Connect the camera to the personal computer.

- Turn off the camera's power switch before connecting it.
- Use the interface cable that came with the camera.
- When connecting the cable plug to the camera's <•⇐> terminal, the cable plug's <•⇐> icon must face the front side of the camera.
- Connect the plug on other end of the cable to the personal computer's USB port.



2 Set the camera's power switch to <ON>.

- When the program selection screen appears on the personal computer, select [**EOS Utility**].

▶ The [**EOS Utility**] screen will appear on the computer, and the direct image transfer screen will appear on the camera's LCD monitor.

Downloaded from ManualsCamera.com Manuals

Shooting will be disabled while the direct transfer screen is displayed.

- If the [**EOS Utility**] screen does not appear, see Software Instruction Manual in the CD-ROM.
- Before disconnecting the cable, turn off the camera. Pull out the cable by grasping the plug (instead of the cord).

Transferring Images to a Personal Computer

The images sent to the personal computer will be saved in the [**My Pictures**] folder or [**Pictures**] folder in subfolders organized according to shooting date.

- **All images**

This is to transfer all the images in the card to the personal computer.

- Select [**All Images**], then press the <⎙> button.

▶ The <⎙> button's blue lamp will blink and the image transfer will start.

▶ When the image transfer is completed, the lamp will stay on.

Downloaded from ManualsCamera.com Manuals

Options other than [**All Images**] are explained below. To start the image transfer, press the <> button.

- **New images**
  Images which have not yet been transferred to the personal computer will be selected by the camera automatically and transferred.
- **Transfer order images**
  You select the images and they are transferred to the personal computer in a batch. To select the images, see page 170.
- **Select & transfer**

You select the images individually to be transferred. To exit, press the <MENU> button.

- **Wallpaper**
  The image you select and transfer will appear as the personal computer's wallpaper. To exit, press the <MENU> button.

- If you press <SET> instead of the <> button, a confirmation dialog will appear. Select [**OK**], then press <SET> to start the transfer.
- RAW images cannot be transferred as wallpaper.

Downloaded from ManualsCamera.com Manuals

MENU Selecting the Images to be Transferred

Under the [ ] tab, you can use [**Transfer order**] to select the images to be transferred to a personal computer. When you select [**Transfer order images**] on page 169, you can transfer the images set by the transfer order.

- **Sel.Image**

Select and order images one by one. Press <(SET)> to include the displayed image in the transfer order. The <✓> icon will also appear on the upper left. After completing the transfer order, press the <MENU> button to save the transfer order to the card.

- **By**
  Select [**By**] and select the folder. All the images in the folder will then be included in the transfer order. If you select Clear all and a folder, the transfer order for all the images in the folder will be canceled.

- **All image**
  When you select All image, all the images in the card will be included in the transfer order. If you select Clear all, the transfer order for all the images in the card will be canceled.

Do not put into the camera any images whose transfer order was set by a different camera and then try to specify another transfer order. The images in the transfer order might all be overwritten. Also, depending on the image type, the transfer order may not be possible.

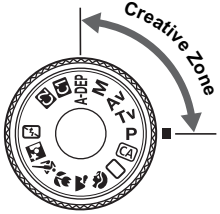
- For the transfer order, if you select an image captured in the RAW+JPEG mode, it will be counted as one image. During the direct image transfer, both the RAW and JPEG images will be transferred to the personal computer.
- If you want to transfer more than 999 images in one batch, select [**All images**] on the direct transfer screen (p.168).

Downloaded from ManualsCamera.com Manuals

10

Customizing the Camera

With Custom Functions, you can change the camera functions according to your preference. Also, the current camera settings can be saved under the Mode Dial's <C1> and <C2> positions.
The functions explained in this chapter apply to Creative Zone modes.



Downloaded from ManualsCamera.com Manuals

MENU Setting Custom Functions ☆

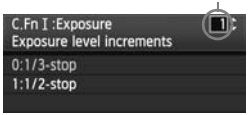
1 Select [📷].

- Turn the <◯> dial to select the [📷] tab.

2 Select the group.

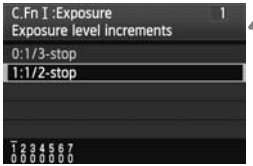
- Turn the <◯> dial to select C.Fn I - IV, then press <(SET)>.

Custom Function No.



3 Select the Custom Function number.

- Turn the <◯> dial to select the Custom Function No., then press <(SET)>.



4 Change the setting as desired.

- Turn the <◯> dial to select the setting (number), then press <(SET)>.
- Repeat steps 2 to 4 if you want to set other Custom Functions.
- At the bottom of the screen, the current Custom Function settings are indicated below the respective numbers.

5 Exit the setting.

- Press the <MENU> button.

▶ The screen for step 2 will reappear.

Clearing All Custom Functions

In step 2, select [**Clear all Custom Func. (C.Fn)**] to clear all the Custom Function settings.

Even after all the Custom Functions are cleared, the setting for [📷**C.Fn IV - 5: Focusing Screen**] will remain intact.

Downloaded from ManualsCamera.com Manuals

MENU Custom Functions ☆

C.Fn I: Exposure

1	Exposure level increments	p.174
2	ISO speed setting increments	
3	ISO expansion	
4	Bracketing auto cancel	
5	Bracketing sequence	p.175
6	Safety shift	
7	Flash sync. speed in Av mode	

C.Fn II: Image

1	Long exposure noise reduction	p.176
2	High ISO speed noise reduction	
3	Highlight tone priority	p.177
4	Auto Lighting Optimizer	

C.Fn III: Autofocus/Drive

1	Lens drive when AF impossible	p.178
2	Lens AF stop button function	
3	AF point selection method	p.179
4	Superimposed display	
5	AF-assist beam firing	
6	Mirror lockup	p.180
7	AF Microadjustment	

C.Fn IV: Operation/Others

1	Shutter button/AF-ON button	p.181
2	AF-ON/AE lock button switch	
3	Assign SET button	p.182
4	Dial direction during Tv/Av	
5	Focusing screen	p.183
6	Add original decision data	p.184
7	Assign FUNC. button	

The Custom Functions whose numbers are shaded do not function during Live View shooting. (Settings are disabled.) With C.Fn III -2, only 2 and 5 will be effective.

Downloaded from ManualsCamera.com Manuals

C.Fn I: Exposure

C.Fn I -1 Exposure level increments

0: 1/3-stop

1: 1/2-stop

Sets 1/2-stop increments for the shutter speed, aperture, exposure compensation, AEB, etc. Effective when you prefer to control the exposure in less fine increments than 1/3-stop increments.

The exposure level will be displayed in the viewfinder and on the LCD panel as shown below.

C.Fn I -2 ISO speed setting increments

0: 1/3-stop

1: 1-stop

C.Fn I -3 ISO expansion

0: Off

1: On

"**H1**" (equivalent to ISO 6400) and "**H2**" (equivalent to ISO 12800) will be selectable for the ISO speed.

C.Fn I -4 Bracketing auto cancel

0: On

The AEB and WB-BKT settings will be canceled if you set the power switch to <OFF> or clear the camera settings. AEB will also be canceled when the flash is ready to fire.

1: Off

The AEB and WB-BKT settings will be retained even when the power switch is set to <OFF>. (When the flash is ready, AEB will be canceled. However, the AEB amount will be retained in memory.)

Downloaded from ManualsCamera.com Manuals

C.Fn I -5 Bracketing sequence

The AEB shooting sequence and white balance bracketing sequence can be changed.

0: 0, -, +

1: -, 0, +

AEB	WB Bracketing	
	B/A Direction	M/G Direction
0 : Standard exposure	0 : Standard white balance	0 : Standard white balance
- : Decreased exposure	- : More blue	- : More magenta
+ : Increased exposure	+ : More amber	+ : More green

C.Fn I -6 Safety shift

0: Disable

1: Enable (Tv/Av)

This works in the shutter-priority AE (Tv) and aperture-priority AE (Av) modes. When the subject's brightness changes erratically and the correct autoexposure cannot be obtained, the camera will change the exposure setting automatically to obtain a correct exposure.

C.Fn I -7 Flash sync. speed in Av mode

0: Auto

1: 1/250-1/60 sec. auto

With aperture-priority AE for flash shots, set this when you want to minimize camera shake. (For night scenes and dark backgrounds, the subject's background will come out dark.)

2: 1/250 sec. (fixed)

With aperture-priority AE for flash shots, set this when you use a telephoto lens and want to minimize camera shake. (For night scenes and dark backgrounds, the subject's background will come out darker than for setting 1.)

Downloaded from ManualsCamera.com Manuals

C.Fn II: Image

C.Fn II -1 Long exposure noise reduction

0: Off

1: Auto

For 1 sec. or longer exposures, noise reduction is performed automatically if noise typical of long exposures is detected. This [**Auto**] setting is effective in most cases.

2: On

Noise reduction is performed for all exposures of 1 sec. or longer. The [**On**] setting may be effective for noise that cannot be detected or reduced with the [**Auto**] setting.

- After the picture is taken, the noise reduction process may take the same amount of time as the exposure. You cannot take another picture until the noise reduction process is completed.
- With setting 2, if a long exposure is made during Live View shooting, the LCD monitor will not display anything (no Live View image display) while noise reduction is applied.

C.Fn II -2 High ISO speed noise reduction

Reduces the noise generated in the image. Although noise reduction is applied at all ISO speeds, it is particularly effective at high ISO speeds. At low ISO speeds, the noise in the shadow areas is further reduced. Change the setting to suit the noise level.

0: Standard

1: Low

2: Strong

3: Disable

With setting 2, the maximum burst for continuous shooting will decrease.

Downloaded from ManualsCamera.com Manuals

C.Fn II -3 Highlight tone priority

0: Disable

1: Enable

Improves the highlight detail. The dynamic range is expanded from the standard 18% gray to bright highlights. The gradation between the grays and highlights becomes smoother.

With setting 1, noise in the shadow areas may be slightly more than usual.

With setting 1, the settable ISO speed range will be 200 - 3200.
Also, <**D+**> (dynamic range) will be displayed on the LCD panel and in the viewfinder.

C.Fn II -4 Auto Lighting Optimizer

If the images comes out dark or the contrast is low, the brightness and contrast are corrected automatically. Change the setting as desired. In the Basic Zone modes, [**Standard**] is set automatically.
For RAW images, you can apply the settings made with Digital Photo Professional (bundled software).

0: Standard

1: Low

2: Strong

3: Disable

- This will not work if manual exposure has been set.
- Depending on the shooting conditions, the noise may increase.

Downloaded from ManualsCamera.com Manuals

C.Fn III: Autofocus/Drive

C.Fn III -1 Lens drive when AF impossible

If autofocus is executed, but focus cannot be achieved, the camera can either keep trying to focus or stop.

0: Focus search on

1: Focus search off

Prevents the camera from becoming grossly out of focus as it attempts to focus again. Especially convenient with super telephoto lenses which can become extremely out of focus.

C.Fn III -2 Lens AF stop button function

* The AF stop button is provided only on super telephoto IS lenses.

0: AF stop

1: AF start

AF operates only while the button is pressed. While the button is pressed, AF operation with the camera is disabled.

2: AE lock

When the button is pressed, AE lock is applied. Convenient when you want to focus and meter at different parts of the picture.

3: AF point: M → Auto/Auto → center

In the manual AF point selection mode, the button instantly switches to automatic AF point selection only while you hold it down. This is convenient in the AI Servo AF mode when you can no longer track the subject with the manually-selected AF point. In the automatic AF point selection mode, the button selects the center AF point only while you hold it down.

4: ONE SHOT ⇄ AI SERVO

In the One-Shot AF mode, the camera switches to AI Servo AF mode only while you hold down the button. And in the AI Servo AF mode, the camera switches to One-Shot AF mode only while you hold down the button. Convenient when you need to keep switching between One-Shot AF and AI Servo AF for a subject which keeps moving and stopping.

5: IS start

With the lens' IS switch already <**ON**>, the Image Stabilizer operates when you press the button. With setting 5, the Image Stabilizer will not operate when you press the shutter button halfway.

Downloaded from ManualsCamera.com Manuals

C.Fn III -3 AF point selection method

0: Normal
Press the <⊡> button and use <✥> to select the AF point.

1: Multi-controller direct
Without pressing the <⊡> button first, you can just use <✥> to select the desired AF point. Pressing the <⊡> button will set it to automatic AF point selection.

2: Quick Control Dial direct
Without pressing the <⊡> button first, you can just use the <◯> to select the desired AF point. By holding down the <⊡> button and turning the <⟳> dial, you can set the exposure compensation.

C.Fn III -4 Superimposed display

0: On

1: Off
When focus is achieved, the AF point will not flash in red in the viewfinder. Recommended when it is bothersome to see it light up. The AF point will still light when you select it.

C.Fn III -5 AF-assist beam firing

The AF-assist beam can be emitted by the camera's built-in flash or by the external, EOS-dedicated Speedlite.

0: Enable

1: Disable
The AF-assist beam is not emitted.

2: Only external flash emits
If an external, EOS-dedicated Speedlite is attached, it will emit the AF-assist beam when necessary. The camera's built-in flash will not fire the AF-assist beam.

If the external, EOS-dedicated Speedlite's [**AF-assist beam firing**] Custom Function is set to [**Disabled**], the Speedlite will not emit the AF-assist beam even if the camera's C.Fn III -5-0/2 is set.

Downloaded from ManualsCamera.com Manuals

C.Fn III -6 Mirror lockup

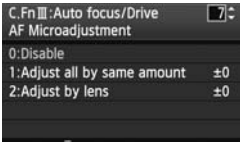
0: Disable

1: Enable

Prevents camera vibrations caused by the reflex mirror action which can disturb shooting with super telephoto lenses or close-up (macro) shooting. See page 106 for the mirror lockup procedure.

C.Fn III -7 AF Microadjustment

Normally, this adjustment is not required. Do this adjustment only if necessary. Note that doing this adjustment may prevent correct focusing from being achieved. AF adjustment cannot be done during Live View shooting in Live and Live modes.



You can make fine adjustments for the AF's point of focus. It can be adjusted in ±20 steps (-: Forward / +: Backward). The adjustment amount of one step varies depending on the maximum aperture of the lens. **Adjust, shoot (L), and check the focus. Repeat to adjust the AF's point of focus.**

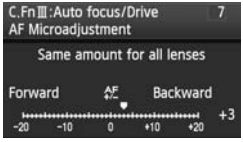
With setting 1 or 2 selected, press the <INFO.> button to view the register screen.

To cancel all the registered adjustments, press the <🗑> button.

0: Disable

1: Adjust all by same amount

The same adjustment amount is applied to all lenses.



2: Adjust by lens

An adjustment can be set individually for any particular lens. Adjustments for up to 20 lenses can be registered in the camera. When a lens whose focus adjustment has been registered is attached to the camera, its point of focus will be shifted accordingly. If adjustments for 20 lenses have already been registered and you want to register an adjustment for another lens, select a lens whose adjustment can be overwritten or deleted.

Downloaded from ManualsCamera.com Manuals

- It is best to make the adjustment at the actual place to be photographed. This will make the adjustment more precise.
- With setting 2, if an Extender is used, the adjustment will be registered for the lens and Extender combination.
- The registered AF microadjustments will be retained even if you use the Custom Function to clear all settings (p.172). However, the setting itself will be [**0: Disable**].

C.Fn IV: Operation/Others

C.Fn IV -1 Shutter button/AF-ON button

0: Metering + AF start

1: Metering + AF start/AF stop

During autofocusing, you can press the <AF-ON> button to stop the autofocusing.

2: Metering start/Metering + AF start

This is useful for subjects which keep moving and stopping repeatedly. In the AI Servo AF mode, you can press the <AF-ON> button to start or stop the AI Servo AF operation. The exposure is set at the moment the picture is taken. Thus, the optimum focusing and exposure will always be achieved as you wait for the decisive moment.

3: AE lock/Metering + AF start

Convenient when you want to focus and meter at different parts of the picture. Press the <AF-ON> button to meter and autofocus, and press the shutter button halfway to attain AE lock.

4: Metering + AF start/Disable

The <AF-ON> button will not function.

C.Fn IV -2 AF-ON/AE lock button switch

0: Disable

1: Enable

The functions of the <AF-ON> and <✱/⊖> buttons will be switched with each other's function.

When set to 1, press the <AF-ON> button to display the image index or to reduce the image display.

Downloaded from ManualsCamera.com Manuals

C.Fn IV -3 Assign SET button

You can assign a frequently-used function to <(SET)>. When the camera is ready to shoot, you can press <(SET)>.

0: Normal (disabled)

1: Image quality

Press <(SET)> to display the image-recording quality setting screen on the LCD monitor. Turn the <dial> or <dial> dial to set the desired image-recording quality, then press <(SET)>.

2: Picture Style

Press <(SET)> to display the Picture Style selection screen on the LCD monitor. Turn the <dial> or <dial> dial to select a Picture Style, then press <(SET)>.

3: Menu display

Gives the same function as the <MENU> button.

4: Image replay

Gives the same function as the <▶> button.

5: Quick Control screen

When you press <(SET)>, the Quick Control screen will appear. Use <cross-keys> to select the function, then turn the <dial> or <dial> dial to set it.

C.Fn IV -4 Dial direction during Tv/Av

0: Normal

1: Reverse direction

The dial's turning direction for setting the shutter speed and aperture can be reversed.
In the manual exposure mode, the direction of the <dial> and <dial> dials will be reversed. In other shooting modes, the <dial> dial will be reversed. The direction of the <dial> dial will be the same in the manual exposure mode and for setting exposure compensation.

Downloaded from ManualsCamera.com Manuals

C.Fn IV -5 Focusing Screen

If you change the focusing screen, change this setting to match the focusing screen type. This is to obtain the correct exposures.

0: Ef-A

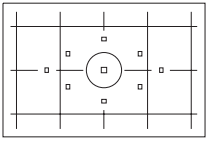
1: Ef-D

2: Ef-S

About focusing screen characteristics

Ef-A: Standard Precision Matte
Standard focusing screen that comes with the camera. Provides good viewfinder brightness and enables easy manual focusing.

Ef-D: Precision Matte with grid
This is the Ef-A with a grid. It makes it easier to align horizontal or vertical lines.



Ef-S: Super Precision Matte
Focusing screen which makes manual focusing easier than with the Ef-A. Effective for users who mainly focus manually.

About Super Precision Matte Ef-S and Maximum Lens Aperture

- This is optimized for f/2.8 and faster lenses.
- If the lens is slower than f/2.8, the viewfinder will look darker than with Ef-A.

- Even if all the Custom Functions are cleared, this setting will be retained.
- Since the standard Ef-A focusing screen comes with the EOS 50D, C.Fn IV -5-0 is already set.
- To change the focusing screen, refer to the instructions that come with the focusing screen.
- The C.Fn IV -5 setting is not included in the registered camera user settings (p.186).

Downloaded from ManualsCamera.com Manuals

C.Fn IV -6 Add original decision data

0: Off

1: On

Data for verifying whether the image is original or not is appended to the image automatically. When the shooting information of an image appended with the verification data is displayed (p.133), the <> icon will appear.
To verify whether the image is original, the Original Data Security Kit OSK-E3 (sold separately) is required.

The images are not compatible with the image encryption/decryption features of Original Data Security Kit OSK-E3.

C.Fn IV -7 Assign FUNC. button

You can change the menu displayed when the <FUNC.> button is pressed.

0: LCD brightness
The [**LCD brightness**] menu will appear.

1: Image quality
The [**Quality**] menu will appear.

2: Exposure comp/AEB setting
The [**Expo. comp./AEB**] menu will appear.

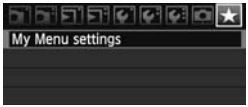
3: Image jump w/
The [**Image jump w/**] menu will appear.

4: Live View function settings
The [**Live View function settings**] menu will appear.

Downloaded from ManualsCamera.com Manuals

MENU Registering My Menu ☆

For faster access, you can register up to six menus and Custom Functions whose settings you change frequently.

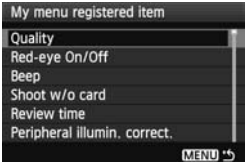


1 Select [My Menu settings].

- Under the [★] tab, select [**My Menu settings**], then press <(SET)>.

2 Select [Register].

- Turn the <◌> dial to select [**Register**], then press <(SET)>.



3 Register the desired items.

- Turn the <◌> dial to select the item, then press <(SET)>.
- When the confirmation dialog appears and you select [**OK**] and press <(SET)>, the menu will be registered.
- Repeat this procedure to register up to six items.
- To return to the screen in step 2, press the <MENU> button.

About My Menu settings

[**Sort**] and other settings displayed in step 2 are explained below:

- **Sort**
  You can change the order of the registered menu items in My Menu. Select [**Sort**] and select the menu item whose order you want to change. Then press <(SET)>. With [▲▼] displayed, turn <◌> to change the order, then press <(SET)>.
- **Display from My Menu**
  When [**Enable**] is set, the [★] tab will be displayed first when you display the menu screen.
- **Delete and Delete all items**
  Deletes the registered menu items. [**Delete**] deletes one menu item at a time, and [**Delete all items**] deletes all menu items.

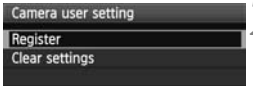
Downloaded from ManualsCamera.com Manuals

MENU Register Camera User Settings ☆

Under the Mode Dial's <C1> and <C2> positions, you can register most of the current camera settings containing your preferred shooting mode, menus, Custom Function settings, etc.

1 Select [Camera user setting].

- Under the [tab, select [**Camera user setting**], then press <SET>.



2 Select [Register].

3 Register the desired items.

- Turn the <dial> dial to select the Mode Dial position where the camera settings are to be registered, then press <SET>.
- When the confirmation dialog appears, select [**OK**] and press <SET>.

▶ The current camera settings will be registered under the Mode Dial's C* position.

About Camera user setting's [Clear settings]

In step 2, if you select [**Clear settings**], the respective Mode Dial position will revert to the default setting effective before you registered the camera settings. The procedure is the same as step 3.

- The My Menu settings will not be registered.
- When the Mode Dial is set to the <C1> or <C2> position, the [**Clear settings**] and [**Clear all Custom Func. (C.Fn)**] menus will not work.

- Even when the Mode Dial is set to the <C1> or <C2> position, you can still change the drive mode and menu settings. If you want to register those changes, follow the procedure above.
- By pressing the <INFO.> button, you can check which shooting mode is registered under the <C1> and <C2> positions (p.188).

Downloaded from ManualsCamera.com Manuals

11

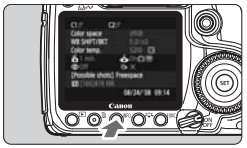
Reference

This chapter provides reference information for camera features, system accessories, etc. The back of this chapter also has an index to make it easier to look up things.

Downloaded from ManualsCamera.com Manuals

INFO. Checking Camera Settings

When the camera is ready to shoot, press the <INFO.> button and "Camera settings" and "Shooting functions" screens will appear. When "Shooting functions" is displayed, you can set the shooting functions while looking at the LCD monitor.



Display "Camera set." and "Shoot. func."

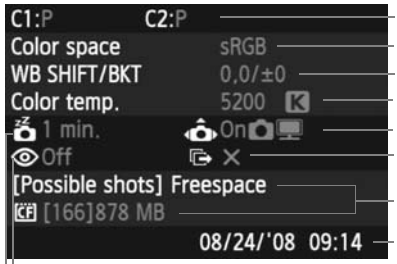
- Press the <INFO.> button.

▶ The button toggles between the two screens.

Display one of them.

- Under the [ ] tab, select [**INFO. button**], then press <(SET)>.
- Select [**Camera set.**] or [**Shoot. func.**], then press <(SET)>.

Camera Settings

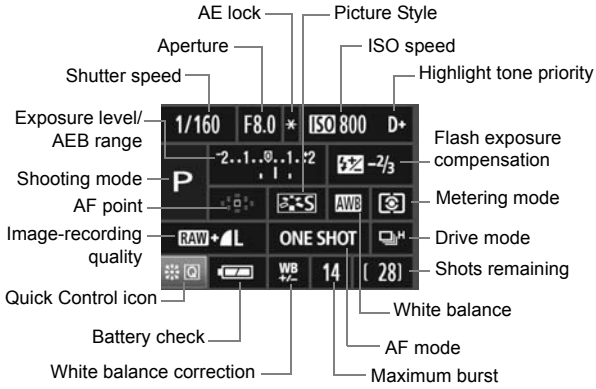


Shooting mode registered under the Mode Dial's C1 and C2 positions
(p.82)
(p.74, 75)
Color temperature (p.73)
Auto rotate display (p.146)
Transfer of some images failed*
(p.29, 61)
Date/Time (p.42)
Red-eye reduction (p.108)
Auto power off (p.44)

* This icon is displayed only when the transfer of some images failed while using the Wireless File Transmitter WFT-E3/E3A.

Downloaded from ManualsCamera.com Manuals

Shooting Functions



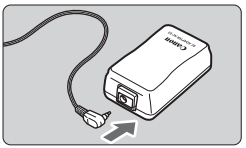
- When you press <⊛> straight down, the Quick Control screen appears (p.38).
- If you press the <ISO·⚡>, <AF·DRIVE>, <⊙·WB>, or <⊞> button, the setting screen will appear on the LCD monitor and you can turn the <⊛> or <◯> dial to set the respective function. You can also select the AF point with <⊛>.

If you turn off the power switch while the “Shooting functions” screen is displayed, the screen will be displayed again the next time you turn on the power switch. To cancel this, press the <FUNC.> button to display a different screen, then turn off the power switch.

Downloaded from ManualsCamera.com Manuals

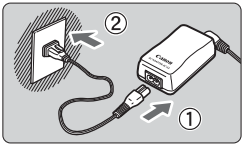
Using a Household Power Outlet

With AC Adapter Kit ACK-E2 (sold separately), you can connect the camera to a household power outlet and not worry about the battery level.



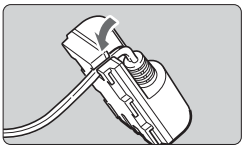
1 Connect the DC plug.

- Connect the DC Coupler's plug to the AC adapter's socket.



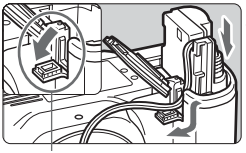
2 Connect the power cord.

- Connect the power cord to the AC adapter.
- Insert the prongs into a power outlet.
- After using the camera, unplug the power plug from the power outlet.



3 Place the cord in the groove.

- Insert the cord carefully without damaging the cord.



DC coupler cord hole

4 Insert the DC Coupler.

- Open the battery compartment cover and open the DC Coupler cord notch cover.
- Insert the DC Coupler securely until it locks and put the cord through the notch.
- Close the cover.

Do not connect or disconnect the power cord while the camera's power switch is set to <ON> or <⏎>.

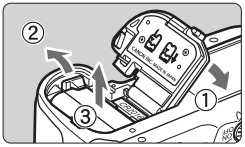
Downloaded from ManualsCamera.com Manuals

Replacing the Date/Time Battery

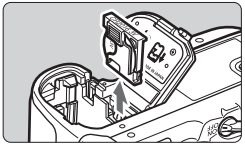
The date/time (back-up) battery maintains the camera's date and time. Its service life is about 5 years. If the date/time is reset when the battery is replaced, replace the back-up battery with a new CR2016 lithium battery as described below.

The date/time setting will also be reset, so be sure to set the correct date/time.

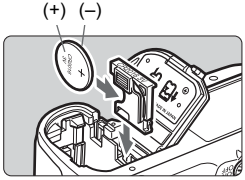
1 **Set the power switch to <OFF>.**



2 **Remove the battery.**

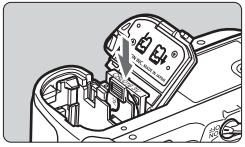


3 **Take off the battery holder.**



4 **Replace the battery.**

- Make sure the battery is in the proper **+ –** orientation.



5 **Insert the battery holder.**

- Then load the battery and close the cover.

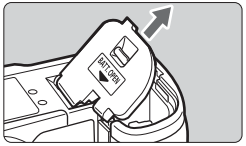
For the date/time battery, be sure to use a CR2016 lithium battery.

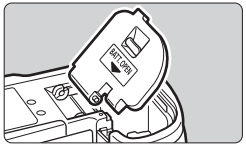
Downloaded from ManualsCamera.com Manuals

Using the Battery Grip

These are supplemental instructions for using Battery Grip BG-E2 with this camera. For instructions other than “Detaching the Battery Compartment Cover” and “Battery Life” explained below, refer to the Battery Grip BG-E2 Instruction Manual.
If you have Battery Grip BG-E2N, read the BG-E2N’s Instruction Manual.

Detaching the Battery Compartment Cover





- Put the camera on a flat surface and hold it firmly so it does not fall.
- Open the battery compartment cover and pull it out at a slanted angle to remove.
- Store the detached battery compartment cover in the battery grip.
- To reattach the battery compartment cover, slant it at the same angle when it was removed and insert the cover’s hinge into the camera.

Battery Life

At 23°C / 0°C (73°F / 32°F) [Approx. shots]

Power	No Flash	50% Flash Use
Battery Pack BP-511A x 2	1600 / 1360	1280 / 1080
Size-AA/LR6 alkaline batteries	400 / 90	300 / 70
Live View Shooting BP-511A x 2	360 / 280	340 / 260

Downloaded from ManualsCamera.com Manuals

Menu Settings

Shooting 1 (Red)

		Page
Quality	L / L / M / M / S / S RAW / SRAW1 / SRAW2	60
Red-eye On/Off	Off / On	108
Beep	On / Off	-
Shoot w/o card	On / Off	29
Review time	Off / 2 sec. / 4 sec. / 8 sec. / Hold	145
Peripheral illumin. correct.	Enable / Disable	76

Shooting 2 (Red)

Expo. comp./AEB	1/3-stop increments, ±2 stops	102
White balance	AWB / / / / / / / / K (2500 - 10000)	71
Custom WB	Manual setting of white balance	72
WB SHIFT/BKT	WB correction: White balance correction WB-BKT: White balance bracketing	74 75
Color space	sRGB / Adobe RGB	82
Picture Style	Standard / Portrait / Landscape / Neutral / Faithful / Monochrome / User Def. 1, 2, 3	65-70
Dust Delete Data	Obtains data to be used to erase dust spots	149

Playback 1 (Blue)

Protect images	Erase-protect images	143
Rotate	Rotate vertical images	138
Erase images	Erase images	144
Print order	Specifies images to be printed (DPOF)	163
Transfer order	Select images to be transferred to a personal computer	170
External media backup	Displayed when external media is used via WFT-E3/E3A (sold separately)	-

Shaded menu items are not displayed in Basic Zone modes.

Downloaded from ManualsCamera.com Manuals

▶ Playback 2 (Blue)

		Page
Highlight alert	Disable / Enable	133
AF point disp.	Disable / Enable	133
Histogram	Brightness / RGB	134
Slide show	Set the Play time and Repeat settings for automatic playback of images	139
Image jump w/	1 image / 10 images / 100 images / Screen / Date / Folder	136

Set-up 1 (Yellow)

Auto power off	1min. / 2 min. / 4 min. / 8 min. / 15 min. / 30 min. / Off	44
Auto rotate	On / On / Off	146
Format	Initialize and erase data in the card	43
File numbering	Continuous / Auto reset / Manual reset	80
Select folder	Create and select a folder	78
WFT settings	Displayed when WFT-E3/E3A (sold separately) is attached	-
Recording func.+ media select	Displayed when external media is used via WFT-E3/E3A (sold separately)	-

Set-up 2 (Yellow)

LCD brightness	Seven brightness levels provided	145
Date/Time	Set the date (year, month, day) and time (hour, min., sec.)	42
Language	25 languages	42
Video system	NTSC / PAL	141
Sensor cleaning	Auto cleaning: Enable / Disable	148
	Clean now	
	Clean manually	151
Live View function settings	Live View shoot. / Expo. simulation / Grid display / Silent shoot. / Metering timer / AF mode	116

* If you previously used a WFT-E3/E3A with the EOS 40D, you can use the WFT-E3/E3A with the EOS 50D after upgrading the WFT-E3/E3A firmware.

Downloaded from ManualsCamera.com Manuals

Set-up 3 (Yellow)

		Page
INFO. button	Normal disp. / Camera set. / Shoot. func.	188
Flash control	Flash firing / Built-in flash function setting / External flash function setting / External flash C.Fn setting / Clear external flash C.Fn setting	111
Camera user setting	Register current camera settings to the Mode Dial's C1 or C2 position	186
Clear settings	Clear all camera settings / Delete copyright information	45
Firmware Ver.	For updating the firmware	-

Custom Functions (Orange)

C.Fn I : Exposure	Customize the camera as desired	174
C.Fn II : Image		176
C.Fn III: Autofocus/Drive		178
C.Fn IV : Operation/Others		181
Clear all Custom Func. (C.Fn)	Clears all Custom Function settings	172

★ My Menu (Green)

My Menu settings	Register frequently-used menu items and Custom Functions	185

Downloaded from ManualsCamera.com Manuals

Function Availability Table

●: Set automatically ○: User selectable ▭: Not selectable

Mode Dial		Basic Zone								Creative Zone				
									CA	P	Tv	Av	M	A-DEP
Quality	JPEG	○	○	○	○	○	○	○	○	○	○	○	○	○
	RAW	○	○	○	○	○	○	○	○	○	○	○	○	○
	RAW + JPEG	○	○	○	○	○	○	○	○	○	○	○	○	○
ISO speed	Auto	●	●	●	●	●	●	●	●	○	○	○	○	○
	Manual									○	○	○	○	○
Picture Style	Standard	●			●	●	●	●	○	○	○	○	○	○
	Portrait		●						○	○	○	○	○	○
	Landscape			●					○	○	○	○	○	○
	Neutral									○	○	○	○	○
	Faithful									○	○	○	○	○
	Monochrome								○	○	○	○	○	○
	User Defined									○	○	○	○	○
Color space	sRGB	●	●	●	●	●	●	●	●	○	○	○	○	○
	Adobe RGB									○	○	○	○	○
White balance	Auto WB	●	●	●	●	●	●	●	●	○	○	○	○	○
	Preset WB									○	○	○	○	○
	Custom WB									○	○	○	○	○
	Color temperature setting									○	○	○	○	○
	WB correction									○	○	○	○	○
	WB bracketing									○	○	○	○	○
Auto Lighting Optimizer		●	●	●	●	●	●	●	●	○	○	○	○	○
AF	One-Shot		●	●	●		●			○	○	○	○	●
	AI Servo					●				○	○	○	○	
	AI Focus	●						●	●	○	○	○	○	
	AF point selection: Auto	●	●	●	●	●	●	●	●	○	○	○	○	●
	AF point selection: Manual									○	○	○	○	
	AF-assist beam	●	●		●		●			○	○	○	○	○

Downloaded from ManualsCamera.com Manuals

●: Set automatically ○: User selectable ▭: Not selectable

Mode Dial		Basic Zone								Creative Zone				
		▭							CA	P	Tv	Av	M	A-DEP
Metering mode	Evaluative	●	●	●	●	●	●	●	●	○	○	○	○	○
	Partial									○	○	○	○	○
	Spot									○	○	○	○	○
	Center-weighted average									○	○	○	○	○
Exposure	Program shift								○	○				
	Exposure compensation								○	○	○	○		○
	AEB									○	○	○	○	○
	AE lock									○	○	○		○
	Depth-of-field preview									○	○	○	○	○
Drive	Single	●		●	●		●	●	○	○	○	○	○	○
	High-speed continuous					●				○	○	○	○	○
	Low-speed continuous		●						○	○	○	○	○	○
	10 sec. self-timer	○	○	○	○	○	○	○	○	○	○	○	○	○
	2 sec. self-timer									○	○	○	○	○
Built-in flash	Auto	●	●		●		●		○					
	Manual								○	○	○	○	○	○
	Flash off			●		●		●	○					
	Red-eye reduction	○	○		○		○		○	○	○	○	○	○
	FE lock									○	○	○	○	○
	Flash exposure compensation									○	○	○	○	○
Live View shooting										○	○	○	○	○

Downloaded from ManualsCamera.com Manuals

Troubleshooting Guide

If there is a problem, first refer to this Troubleshooting Guide. If this Troubleshooting Guide does not resolve the problem, contact your dealer or nearest Canon Service Center.

Power

The battery cannot be recharged with the battery charger provided.

- Do not recharge any battery pack other than genuine Canon Battery Pack BP-511A, BP-514, BP-511, or BP-512.

The camera does not operate even when the power switch is set to <ON>.

- The battery is not properly installed in the camera (p.26).
- Recharge the battery (p.24).
- Make sure the battery compartment cover is closed (p.26).
- Make sure the card slot cover is closed (p.29).

The access lamp still blinks even when the power switch is set to <OFF>.

- If the power is cut off while an image is being recorded to the card, the access lamp will light/blink for a few sec. After the image is recorded to the card, the camera turns off automatically.

The battery becomes exhausted quickly.

- Use a fully-charged battery (p.24).
- The rechargeable battery will degrade after repeated use. Purchase a new one.

The camera turns off by itself.

- Auto power off is in effect. If you do not want auto power off to take effect, set the [**Auto power off**] menu to [**Off**].

Downloaded from ManualsCamera.com Manuals

Shooting

No images can be shot or recorded.

- The card is not properly inserted (p.29).
- If the card is full, replace the card or delete unnecessary images to make room (p.29, 144).
- If you try to focus in the One-Shot AF mode while the focus confirmation light <●> in the viewfinder blinks, a picture cannot be taken. Press the shutter button halfway again to focus, or focus manually (p.35, 88).

The LCD monitor does not display a clear image.

- If dust is adhering to the LCD monitor, wipe with a lens cloth or soft cloth.
- In low or high temperatures, the LCD monitor display may seem slow or it might look black. It will return to normal at room temperature.

The image is out of focus.

- Set the lens focus mode switch to <**AF**> (p.31).
- To prevent camera shake, hold the camera still and press the shutter button gently (p.34, 35).
- If the lens has an Image Stabilizer, set the IS switch to <ON>.

The card cannot be used.

- If a card error message is displayed, see page 30 or 201.

The camera makes a noise when it is shaken.

- The built-in flash's pop-up mechanism moves slightly. This is normal.

Downloaded from ManualsCamera.com Manuals

Live View shooting is not possible.

- When using Live View shooting, use a memory card (a hard disk-type card such as MicroDrive is not recommended). A hard disk-type card requires a lower temperature range for operation than normal memory cards. If the temperature gets too high, the Live View shooting may stop temporarily to prevent damage to the card's hard disk. When the camera's internal temperature decreases, you can resume the Live View shooting (p.120).

The built-in flash does not fire.

- If you shoot continuously with the built-in flash at short intervals, the flash might stop operating to protect the flash unit.

Image Review & Operation

The image cannot be erased.

- If the image has been erase-protected, it cannot be erased (p.143).

The shooting date and time displayed is incorrect.

- The correct date and time has not been set (p.42).

No image appears on the TV screen.

- Make sure the video cable plug is connected all the way in (p.141).
- Set the video OUT format (NTSC/PAL) to the same video format as the TV (p.194).
- Use the video cable that came with the camera (p.141).

Downloaded from ManualsCamera.com Manuals

Error Codes

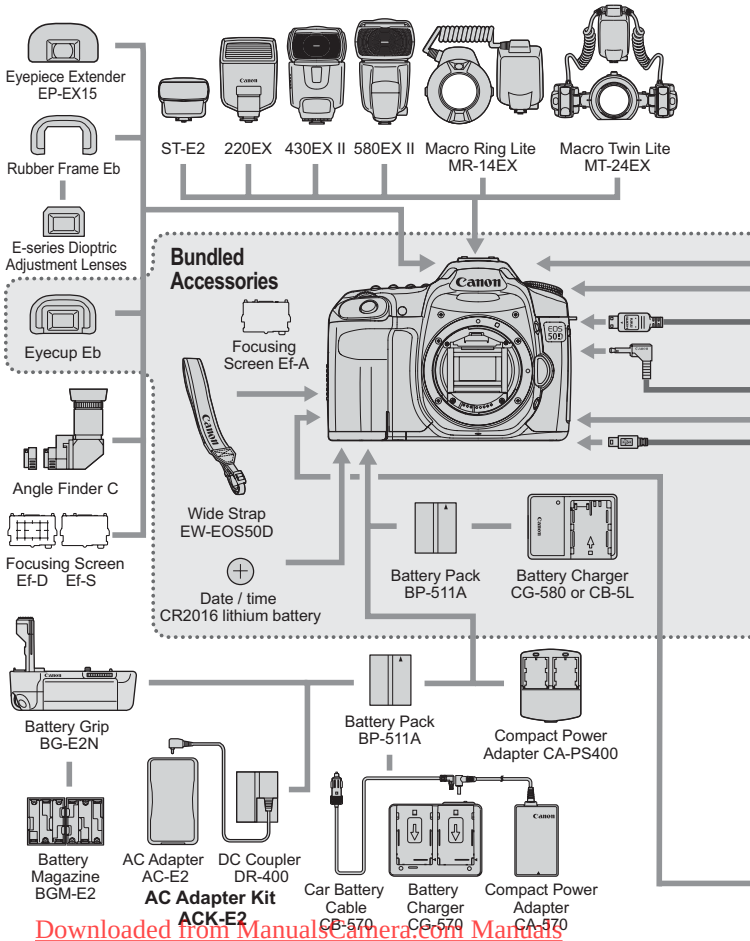
If there is a problem with the camera, an error message appears. Follow the on-screen instructions.
To recover from the error screen, turn the power switch <OFF> and <ON>, or remove and reinstall the battery.
If error 02 (Card problem) is displayed, remove and reinstall the card or format the card. This may resolve the problem.

If the same error keeps appearing, there may be a problem. Write down the error code and consult your nearest Canon Service Center.

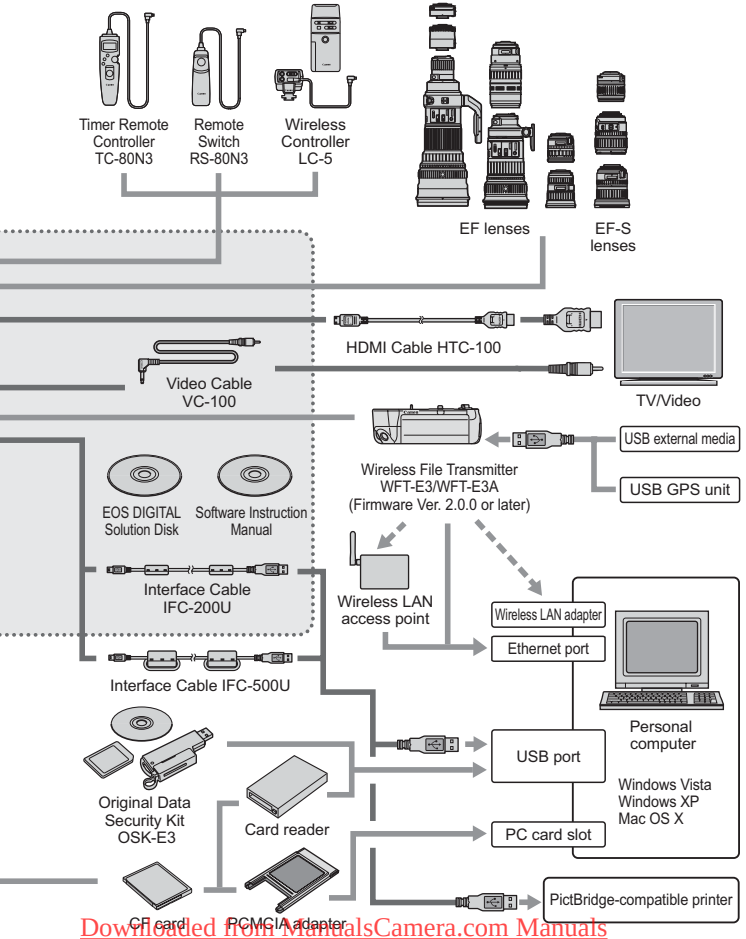
No.	Error Message & Solution
Err 01	**Communications between the camera and lens is faulty. Clean the lens contacts.**
	➔ Clean the electrical contacts on the camera and lens, use a Canon lens, or have the camera or lens checked or repaired. (p.13,16)
Err 02	**There is a problem with the card. Replace the card.**
	➔ Remove and install the card again, replace the card, or format the card. (p.29, 43)
Err 04	**Cannot save images because the card is full. Replace the card.**
	➔ Replace the card, erase unnecessary images, or format the card. (p.29, 144, 43)
Err 05	**The built-in flash's auto pop-up was obstructed. Turn the power switch to <OFF> and <ON> again.**
	➔ Operate the power switch. (p.27)
Err 06	**Self Cleaning Sensor Unit malfunction. Consult with Canon Service Center.**
	➔ Operate the power switch or have the camera checked or repaired. (p.27)
Err 99	**Shooting is not possible. Turn the power switch to <OFF> and <ON> again or re-install the battery.**
	➔ Operate the power switch, remove and install the battery again, use a Canon lens, or have the camera checked or repaired. (p.27,26)

Downloaded from ManualsCamera.com Manuals

System Map



Downloaded from ManualsCamera.com Manuals



Downloaded from ManualsCamera.com Manuals

Specifications

• Type

Type:	Digital, single-lens reflex, AF/AE camera with built-in flash
Recording media:	Type I or II CF card, UDMA-compatible
Image sensor size:	22.3 x 14.9 mm
Compatible lenses:	Canon EF lenses (including EF-S lenses) (35mm-equivalent focal length is approx.1.6 times the lens focal length)
Lens mount:	Canon EF mount

• Image Sensor

Type:	CMOS sensor
Effective pixels:	Approx. 15.10 megapixels
Aspect ratio:	3:2
Dust delete feature:	Auto, Manual, Dust Delete Data appending

• Recording System

Recording format:	Design rule for Camera File System 2.0
Image type:	JPEG, RAW (14-bit Canon original) RAW+JPEG simultaneous recording possible
Recorded pixels:	Large : Approx. 15.10 megapixels (4752 x 3168) Medium : Approx. 8.00 megapixels (3456 x 2304) Small : Approx. 3.70 megapixels (2352 x 1568) RAW : Approx. 15.10 megapixels (4752 x 3168) sRAW1 : Approx. 7.10 megapixels (3267 x 2178) sRAW2 : Approx. 3.80 megapixels (2376 x 1584)
Create/select a folder:	Possible

• Image Processing

Picture Style:	Standard, Portrait, Landscape, Neutral, Faithful, Monochrome, User Def. 1 - 3
White balance:	Auto, Preset (Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash), Custom, Color temperature setting (2500-10000K) White balance correction and white balance bracketing features provided * Color temperature information transmission enabled
Noise reduction:	Applicable to long exposures and high ISO speed shots
Automatic image brightness correction:	Auto Lighting Optimizer
Highlight tone priority:	Provided
Lens peripheral illumination correction:	Provided

Downloaded from ManualsCamera.com Manuals

• Viewfinder

Type:	Eye-level pentaprism
Coverage:	Vertical/Horizontal approx. 95%
Magnification:	Approx. 0.95x (-1 m^{-1} with 50mm lens at infinity)
Eye point:	Approx. 22 mm (From eyepiece lens center at -1m^{-1})
Built-in dioptric adjustment:	-3.0 - +1.0 m^{-1} (dpt)
Focusing screen:	Interchangeable (2 types sold separately), Ef-A standard focusing screen provided
Mirror:	Quick-return type
Depth-of-field preview:	Provided

• Autofocus

Type:	TTL secondary image-registration, phase detection
AF points:	9 (All cross-type)
Metering range:	EV -0.5 - 18 (at 23°C/73°F, ISO 100)
Focus modes:	One-Shot AF, AI Servo AF, AI Focus AF, Manual focusing (MF)
AF-assist beam:	Small series of flashes fired by built-in flash
AF Microadjustment:	AF Microadjustment possible

• Exposure Control

Metering modes:	35-zone TTL full-aperture metering • Evaluative metering (linkable to any AF point) • Partial metering (approx. 9% of viewfinder at center) • Spot metering (approx. 3.8% of viewfinder at center) • Center-weighted average metering
Metering range:	EV 1 - 20 (at 23°C/73°F with EF50mm f/1.4 USM lens, ISO 100)
Exposure control:	Program AE (Full Auto, Portrait, Landscape, Close-up, Sports, Night Portrait, Flash Off, Creative Auto, Program), shutter-priority AE, aperture-priority AE, depth-of-field AE, manual exposure
ISO speed:	Basic Zone modes: ISO 100 - 1600 set automatically
(Recommended exposure index)	Creative Zone modes: ISO 100 - 3200 (in 1/3-stop increments), Auto, or ISO speed can be expanded to ISO 6400 or ISO 12800
Exposure compensation:	Manual and AEB (Settable in combination with manual exposure compensation) Settable amount: ±2 stops in 1/3- or 1/2-stop increments
AE lock:	Auto: Applied in One-Shot AF mode with evaluative metering when focus is achieved Manual: By AE lock button

Downloaded from ManualsCamera.com Manuals

• Shutter

Type:	Electronically-controlled, focal-plane shutter
Shutter speeds:	1/8000 sec. to 1/60 sec. (Full Auto mode), X-sync at 1/250 sec. 1/8000 sec. to 30 sec., bulb (Total shutter speed range. Available range varies by shooting mode.)

• Flash

Built-in flash:	Retractable, auto pop-up flash Guide No.: 13/43 (ISO 100, in meters/feet) Flash coverage: 17mm lens angle of view Recycling time approx. 3 sec.
External flash:	EX-series Speedlite (Functions settable with the camera)
Flash metering:	E-TTL II autoflash
Flash exposure compensation:	±2 stops in 1/3- or 1/2-stop increments
FE lock:	Provided
PC terminal:	Provided

• Drive System

Drive modes:	Single, High-speed continuous, Low-speed continuous, and Self-timer (10 sec. or 2 sec. delay)
Continuous shooting speed:	High-speed: Max. approx. 6.3 shots/sec., Low-speed: Max. approx. 3 shots/sec.
Max. burst: (High-speed continuous shooting)	JPEG Large/Fine: Approx. 60 shots (Approx. 90 shots), RAW: Approx. 16 shots (Approx. 16 shots), RAW+JPEG Large/Fine: Approx. 10 shots (Approx. 10 shots) * Figures are based on Canon's testing standards (ISO 100 and Standard Picture Style) using a 2GB card. * Figures in parentheses apply to an Ultra DMA (UDMA) 2GB card based on Canon's testing standards.

• Live View Shooting

Focusing:	Quick mode (Phase-difference detection) Live mode, Live face detection mode (Contrast detection) Manual focusing (5x/10x magnification possible)
Metering modes:	Evaluative metering with the image sensor
Metering range:	EV 0 - 20 (at 23°C/73°F with EF50mm f/1.4 USM lens, ISO 100)
Silent shooting:	Provided

Downloaded from ManualsCamera.com Manuals

• LCD Monitor

Type:	TFT color liquid-crystal monitor (Brightness adjustable to 7 levels)
Monitor size and dots:	3-in. with approx. 920,000 dots (VGA)
Coverage:	Approx. 100%
Interface languages:	25

• Image Playback

Image display formats:	Single, Single + Info (Image-recording quality, shooting information, histogram), 4-image index, 9-image index, image rotate possible
Zoom magnification:	Approx. 1.5x - 10x
Image browsing methods:	Single image, jump by 10 or 100 images, jump by screen, by shooting date, by folder
Highlight alert:	Overexposed highlights blink

• Direct Printing

Compatible printers:	PictBridge-compatible printers
Printable images:	JPEG and RAW images
Print ordering:	DPOF Version 1.1 compatible

• Customization

Custom Functions:	25
Camera user settings:	Register under Mode Dial's C1 and C2 positions
My Menu registration:	Provided

• Interface

Digital terminal:	For personal computer communication and direct printing (Hi-Speed USB)
Video output terminal:	φ3.5mm mini-jack (NTSC/PAL selectable)
HDMI mini OUT terminal:	Type C
Remote control terminal:	Compatible with remote control via N3 Type
Extension system terminal:	For connection to Wireless File Transmitter WFT-E3/E3A

• Power Source

Battery:	Battery Pack BP-511A (Qty. 1) * AC power can be supplied via AC Adapter Kit ACK-E2 * With Battery Grip BG-E2N or BG-E2 attached, size-AA/LR6 batteries can be used
Battery life: (Based on CIPA testing standards)	With 50% flash use and normal shooting: At 23°C/73°F, approx. 640 shots. At 0°C/32°F, approx. 540 shots. With 50% flash use and Live View shooting: At 23°C/73°F, approx. 170 shots. At 0°C/32°F, approx. 130 shots.

Downloaded from ManualsCamera.com Manuals

• Dimensions and Weight

Dimensions (W x H x D): 145.5 x 107.8 x 73.5 mm / 5.7 x 4.2 x 2.9 in.
Weight: Approx. 730 g / 25.7 oz. (body only)

• Operation Environment

Working temperature range: 0°C - 40°C / 32°F - 104°F
Working humidity: 85% or less

• Battery Pack BP-511A

Type: Rechargeable lithium-ion battery
Rated voltage: 7.4 V DC
Battery capacity: 1390 mAh
Dimensions (W x H x D): 38 x 21 x 55 mm / 1.5 x 0.8 x 2.2 in.
Weight: Approx. 82 g / 2.9 oz.

• Battery Charger CG-580

Compatible battery: Battery Pack BP-511A, BP-514, BP-511, and BP-512
Recharging time: Approx. 100 min.
Rated input: 100 - 240 V AC (50/60 Hz)
Rated output: 8.4 V DC
Working temperature range: 0°C - 40°C / 32°F - 104°F
Working humidity: 85% or less
Dimensions (W x H x D): 91 x 67 x 31 mm / 3.6 x 2.6 x 1.2 in.
Weight: Approx. 115 g / 4.1 oz.

• Battery Charger CB-5L

Compatible battery: Battery Pack BP-511A, BP-514, BP-511, and BP-512
Power cord length: Approx. 1.8 m / 5.9 ft.
Recharging time: Approx. 100 min.
Rated input: 100 - 240 V AC
Rated output: 8.4 V DC
Working temperature range: 0°C - 40°C / 32°F - 104°F
Working humidity: 85% or lower
Dimensions (W x H x D): 91 x 67 x 32.3 mm / 3.6 x 2.6 x 1.3 in.
Weight: Approx. 105 g / 3.7 oz. (excluding power cord)

Downloaded from ManualsCamera.com Manuals

• EF-S18-200mm f/3.5-5.6 IS

Angle of view:	Diagonal extent: 74°20' - 7°50' Horizontal extent: 64°30' - 6°30' Vertical extent: 45°30' - 4°20'
Lens construction:	16 elements in 12 groups
Minimum aperture:	f/22 - 36
Closest focusing distance:	0.45 m / 1.48 ft. (From image sensor plane)
Max. magnification:	0.24x (at 200 mm)
Field of view:	452 x 291 - 93 x 62 mm / 17.8 x 11.5 - 3.7 x 2.4 in. (at 0.45 m)
Image Stabilizer:	Lens shift type
Filter size:	72 mm
Lens cap:	E-72
Max. diameter x length:	78.6 x 102 mm / 3.1 x 4.0 in.
Weight:	Approx. 595 g / 21.0 oz.
Hood:	EW-78D (sold separately)
Case:	LP1116 (sold separately)

• EF-S17-85mm f/4-5.6 IS USM

Angle of view:	Diagonal extent: 78°30' - 18°25' Horizontal extent: 68°40' - 15°25' Vertical extent: 48°00' - 10°25'
Lens construction:	17 elements in 12 groups
Minimum aperture:	f/22 - 32
Closest focusing distance:	0.35 m / 1.15 ft. (From image sensor plane)
Max. magnification:	0.2x (at 85mm)
Field of view:	328 x 219 - 112 x 75 mm / 12.9 x 8.6 - 4.4 x 3.0 in. (at 0.35 m)
Image Stabilizer:	Lens shift type
Filter size:	67 mm
Lens cap:	E-67U
Max. diameter x length:	78.5 x 92 mm / 3.1 x 3.6 in.
Weight:	Approx. 475 g / 16.8 oz.
Hood:	EW-73B (sold separately)
Case:	LP1116 (sold separately)

Downloaded from ManualsCamera.com Manuals

• EF28-135mm f/3.5-5.6 IS USM

Angle of view:	Diagonal extent: 75° - 18° Horizontal extent: 65° - 15° Vertical extent: 46° - 10°
Lens construction:	16 elements in 12 groups
Minimum aperture:	f/22 - 36
Closest focusing distance:	0.5 m / 1.64 ft. (From image sensor plane)
Max. magnification:	0.19x (at 135 mm)
Field of view:	551 x 355 - 188 x 125 mm / 21.7 x 14.0 - 7.4 x 4.9 in. (at 0.5 m)
Image Stabilizer:	Lens shift type
Filter size:	72 mm
Lens cap:	E-72U
Max. diameter x length:	78.4 x 96.8 mm / 3.1 x 3.8 in.
Weight:	Approx. 500 g / 17.6 oz.
Hood:	EW-78B II (sold separately)
Case:	LP1116 (sold separately)

• EF-S18-55mm f/3.5-5.6 IS

Angle of view:	Diagonal extent: 74°20’ - 27°50’ Horizontal extent: 64°30’ - 23°20’ Vertical extent: 45°30’ - 15°40’
Lens construction:	11 elements in 9 groups
Minimum aperture:	f/22 - 36
Closest focusing distance:	0.25 m / 0.82 ft. (From image sensor plane)
Max. magnification:	0.34x (at 55 mm)
Field of view:	207 x 134 - 67 x 45 mm / 8.1 x 5.3 - 2.6 x 1.8 in. (at 0.25 m)
Image Stabilizer:	Lens shift type
Filter size:	58mm
Lens cap:	E-58
Max. diameter x length:	68.5 x 70 mm / 2.7 x 2.8 in.
Weight:	Approx. 200 g / 7.1 oz.
Hood:	EW-60C (sold separately)
Case:	LP814 (sold separately)

- All specifications above are based on Canon’s testing standards.
- The camera’s specifications and exterior are subject to change without notice.
- If a problem occurs with a non-Canon lens attached to the camera, consult the respective lens maker.

Downloaded from ManualsCamera.com Manuals

Trademarks

- Adobe is a trademark of Adobe Systems Incorporated.
- CompactFlash is a trademark of SanDisk Corporation.
- Windows is a trademark or registered trademark of Microsoft Corporation in the United States and other countries.
- Macintosh and Mac OS is a trademark or registered trademark of Apple Inc. in the United States and other countries.
- HDMI, HDMI logo, and High-Definition Multimedia Interface are a trademark or registered trademark of HDMI Licensing LLC.
- All other corporate and product names and trademarks mentioned in this manual are the property of their respective owners.

* This digital camera supports Design rule for Camera File System 2.0 and Exif 2.21 (also called “Exif Print”). Exif Print is a standard that enhances compatibility between digital cameras and printers. By connecting the camera to an Exif Print-compliant printer, the shooting information is incorporated to optimize the print output.

Use of genuine Canon accessories is recommended.
This product is designed to achieve excellent performance when used with genuine Canon accessories. Canon shall not be liable for any damage to this product and/or accidents such as fire, etc., caused by the malfunction of non-genuine Canon accessories (e.g., a leakage and/or explosion of a battery pack). Please note that this warranty does not apply to repairs arising out of the malfunction of non-genuine Canon accessories, although you may request such repairs on a chargeable basis.

Downloaded from ManualsCamera.com Manuals

Safety Warnings

Follow these safeguards and use the equipment properly to prevent injury, death, and material damage.

Preventing Serious Injury or Death

- To prevent fire, excessive heat, chemical leakage, and explosions, follow the safeguards below:
  - Do not use any batteries, power sources, and accessories not specified in this booklet. Do not use any home-made or modified batteries.
  - Do not short-circuit, disassemble, or modify the battery pack or back-up battery. Do not apply heat or apply solder to the battery pack or back-up battery. Do not expose the battery pack or back-up battery to fire or water. And do not subject the battery pack or back-up battery to strong physical shock.
  - Do not install the battery pack or back-up battery in reversed polarity (+ –). Do not mix new and old or different types of batteries.
  - Do not recharge the battery pack outside the allowable ambient temperature range of 0°C - 40°C (32°F - 104°F). Also, do not exceed the recharging time.
  - Do not insert any foreign metallic objects into the electrical contacts of the camera, accessories, connecting cables, etc.
- Keep the back-up battery away from children. If a child swallows the battery, consult a physician immediately. (Battery chemicals may harm the stomach and intestines.)
- When disposing of a battery pack or back-up battery, insulate the electrical contacts with tape to prevent contact with other metallic objects or batteries. This is to prevent fire or an explosion.
- If excessive heat, smoke, or fumes are emitted during battery pack recharging, immediately unplug the battery charger from the power outlet to stop the recharging and prevent a fire.
- If the battery pack or back-up battery leaks, changes color, deforms, or emits smoke or fumes, remove it immediately. Be careful not to get burned in the process.
- Prevent any battery leakage from contacting your eyes, skin, and clothing. It can cause blindness or skin problems. If the battery leakage contacts your eyes, skin, or clothing, flush the affected area with lots of clean water without rubbing it. See a physician immediately.
- During the recharging, keep the equipment away from the reach of children. The cord can accidentally choke the child or give an electrical shock.
- Do not leave any cords near a heat source. It can deform the cord or melt the insulation and cause a fire or electrical shock.
- Do not fire the flash at someone driving a car. It may cause an accident.
- Do not fire the flash near a person’s eyes. It may impair the person’s vision. When using flash to photograph an infant, keep at least 1 meter away.
- Before storing the camera or accessory when not in use, remove the battery pack and disconnect the power plug. This is to prevent electrical shock, heat generation, and fire.
- Do not use the equipment where there is flammable gas. This is to prevent an explosion or fire.

Downloaded from ManualsCamera.com Manuals

- If you drop the equipment and the casing breaks open to expose the internal parts, do not touch the internal parts due to the possibility of electrical shock.
- Do not disassemble or modify the equipment. High-voltage internal parts can cause electrical shock.
- Do not look at the sun or an extremely bright light source through the camera or lens. Doing so may damage your vision.
- Keep the camera from the reach of small children. The neck strap can accidentally choke the child.
- Do not store the equipment in dusty or humid places. This is to prevent fire and electrical shock.
- Before using the camera inside an airplane or hospital, check if it is allowed. Electromagnetic waves emitted by the camera may interfere with the plane's instruments or the hospital's medical equipment.
- To prevent fire and electrical shock, follow the safeguards below:
  - Always insert the power plug all the way in.
  - Do not handle a power plug with wet hands.
  - When unplugging a power plug, grasp and pull the plug instead of the cord.
  - Do not scratch, cut, or excessively bend the cord or put a heavy object on the cord. Also do not twist or tie the cords.
  - Do not connect too many power plugs to the same power outlet.
  - Do not use a cord whose insulation has been damaged.
- Occasionally unplug the power plug and use a dry cloth to clean off the dust around the power outlet. If the surrounding is dusty, humid, or oily, the dust on the power outlet may become moist and short-circuit the outlet to cause a fire.

Preventing Injury or Equipment Damage

- Do not leave equipment inside a car under the hot sun or near a heat source. The equipment may become hot and cause skin burns.
- Do not carry the camera around while it is attached to a tripod. Doing so may cause injury. Also make sure the tripod is sturdy enough to support the camera and lens.
- Do not leave a lens or lens-attached camera under the sun without the lens cap attached. Otherwise, the lens may concentrate the sun's rays and cause a fire.
- Do not cover or wrap the battery-recharging apparatus with a cloth. Doing so may trap heat within and cause the casing to deform or catch fire.
- If you drop the camera in water or if water or metal fragments enter inside the camera, promptly remove the battery pack and back-up battery. This is to prevent fire and electrical shock.
- Do not use or leave the battery pack or back-up battery in a hot environment. Doing so may cause battery leakage or a shorter battery life. The battery pack or back-up battery can also become hot and cause skin burns.
- Do not use paint thinner, benzene, or other organic solvents to clean the equipment. Doing so may cause fire or a health hazard.

If the product does not work properly or requires repair, contact your dealer or your nearest Canon Service Center.

Downloaded from ManualsCamera.com Manuals

Digital Camera Model DS126211 Systems

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

The cable with the ferrite core provided with the digital camera must be used with this equipment in order to comply with Class B limits in Subpart B of Part 15 of the FCC rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

Canon U.S.A. Inc.
One Canon Plaza, Lake Success, NY 11042, U.S.A.
Tel No. (516)328-5600

This Class B digital apparatus complies with Canadian ICES-003.

When connecting to and using a household power outlet, use only AC Adapter Kit ACK-E2 (rated input: 100-240 V AC 50/60 Hz, rated output: 7.8 V DC). Using anything else can cause fire, overheating, or electrical shock.

Downloaded from ManualsCamera.com Manuals

IMPORTANT SAFETY INSTRUCTIONS

1. **SAVE THESE INSTRUCTIONS** — This manual contains important safety and operating instructions for Battery Charger CG-580 & CB-5L.
2. Before using the charger, read all instructions and cautionary remarks on (1) the charger, (2) the battery pack, and (3) the product using the battery pack.
3. **CAUTION** — To reduce risk of injury, charge only the Battery Pack BP-511A, BP-514, BP-511, or BP-512. Other types of batteries may burst, causing personal injury and other damage.
4. Do not expose the charger to rain or snow.
5. Use of an attachment not recommended or sold by Canon may result in fire, electric shock, or personal injury.
6. To reduce risk of damage to electric plug and cord, pull by plug rather than by cord when disconnecting charger.
7. Make sure cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
8. Do not operate the charger with damaged cord or plug - replace them immediately.
9. Do not operate the charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; take it to a qualified serviceman.
10. Do not disassemble the charger; take it to a qualified serviceman when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.
11. To reduce risk of electric shock, unplug charger from outlet before attempting any maintenance or cleaning.

MAINTENANCE INSTRUCTION

Unless otherwise stated in this manual, there are no user serviceable parts inside. Refer servicing to qualified serviceman.

USA and Canada only:
The Lithium ion/polymer battery that powers the product is recyclable. Please call 1-800-8-BATTERY for information on how to recycle this battery.

For CA, USA only
Included lithium battery contains Perchlorate Material – special handling may apply.
See www.dtsc.ca.gov/hazardouswaste/perchlorate/ for details.

Downloaded from ManualsCamera.com Manuals

MEMO

Downloaded from ManualsCamera.com Manuals

MEMO

Downloaded from ManualsCamera.com Manuals

MEMO

Downloaded from ManualsCamera.com Manuals

MEMO

Downloaded from ManualsCamera.com Manuals

MEMO

Downloaded from ManualsCamera.com Manuals

MEMO

Downloaded from ManualsCamera.com Manuals

MEMO

Downloaded from ManualsCamera.com Manuals

Index

A

AC Adapter Kit 190
Access lamp 30
A-DEP
(Automatic depth-of-field AE) 99
Adobe RGB 82
AE lock 103
AEB (Auto Exposure
Bracketing) 102, 174, 175
AF → Focusing
AF Microadjustment 180
AF start <AF-ON> button 35, 181
AF stop button 178
AI Focus AF 85
AI Servo AF 50, 85
Aperture-priority AE 96
Auto Lighting Optimizer 47, 177
Auto playback → Slide show
Auto power off 27, 44
Auto rotate 146
Autofocus → Focusing
Av (Aperture-priority AE) 96

B

Basic Zone 20
Battery → Power
Battery check 28
Battery Grip BG-E2 192
Beeper 193
Black-and-white image 66, 68
Bracketing 75, 102, 174
Bulb 104
  Noise reduction 176

C

C1, C2 ..... 20, 186
CA (Creative Auto) 57
Cable 3, 141, 142
Camera
  Camera shake 90, 106
  Clear camera settings 45
  Holding the camera 34
  Setting description display 188
Camera shake 33, 35
Camera user settings 20, 186
Card 13, 29, 43
  Card reminder 29
  Format 43
  Problem 30
Center-weighted average
metering 100
CF card → Card
Clock → Date/Time
Close-up 53
Color space 82
  sRGB / Adobe RGB
Color temperature 73
Color tone 67, 160
Continuous shooting 89, 189
Contrast 67, 160
Copyright information 46
Cord → Cable
Creative Auto 57
Creative Zone 20
☆ icon 4
Cross-type focusing 87
Custom Functions 172
  Clearing all 172

Downloaded from ManualsCamera.com Manuals

D

Date → Date/Time
Date/Time 42
  Date/time battery replacement ... 191
Depth-of-field preview 97
Dioptric adjustment 34
Direct printing → Printing
Drive mode 89, 189
  Single / Continuous shooting
  Self-timer 90
Dust Delete Data 149

E

Easy printing 159
Erase (image) 144
Error codes 201
Evaluative metering 100
Exposure compensation 101
  1/2-stop increments 174
Exposure simulation 117
External Speedlite 113
Eyepiece cover 23, 105

F

Faithful 66
FE lock 110
File number 80
  Continuous / Auto reset /
  Manual reset
File size 61, 133
Filter effect (Monochrome) 68
  Yellow / Orange / Red / Green
Flash
  2nd-curtain sync 111
  Custom Functions 112
  Effective range 108
  External Speedlite 112, 113
  FE lock 110
  Flash exposure compensation .. 109
  Flash off 56
  Flash sync. speed in Av mode .. 175
  Menu setting 111, 112
  Red-eye reduction 108
Flash exposure
compensation 109, 189
  1/2-stop increments 174
Focal plane mark 17
Focus lock 50
Focus mode switch 31, 88
Focusing
  AF mode 84, 189
  AF point display 133, 179
  AF point selection 86, 179, 189
  AF-assist beam 49, 87, 179
  Beeper 85
  Difficult-to-focus subjects 88
  Focus search 178
  Live View shooting 121, 127
  Manual focusing 88, 127
  Out of focus 49, 88, 126
  Recompose 50
Focusing screen 183
Folder Create/Select 78
Format (CF card initialization) 43
4- or 9-image index display 135
Full Auto 48
Function availability table 196

H

HDMI 142

Downloaded from ManualsCamera.com Manuals

Hi-Definition 142
Highlight alert 133
Highlight detail loss 133
Highlight tone priority 177
Histogram 134
  Brightness / RGB
Household power 190

I

Illumination (LCD panel) 104
Image
  AF point display 133
  Auto playback 139
  Auto rotate 146
  Erase 144
  Highlight alert 133
  Histogram 134
  Index 135
  Jump display 136
  Magnified view 137
  Manual rotate 138
  Playback 131
  Protect 143
  Shooting information 133
  Transfer to personal computer ... 167
  Viewing on TV 141
Image area 32
Image dust prevention 147
Image Stabilizer (lens) 33
Image transfer 167
Image Zone 20
Image-recording quality selection ... 60
Index display 135
ISO speed 63, 174, 189
  Automatic setting 64
  ISO expansion 174

J

JPEG 60
Jump display 136

L

Landscape 52, 65
Language selection 42
LCD monitor 13
  Brightness adjustment 145
  Image playback 131
  Menu screen 40
  Shooting functions 189
LCD panel 18
  Illumination 104
Lens 21, 31
Lens peripheral
illumination correction 76
Live View shooting 115
  Focusing 121, 127
  Possible shots 119
  Silent shooting 128
Long exposures → Bulb

M

M (Manual exposure) 98
Magnified view 127, 137
Malfunction 198
Manual exposure 98
Manual focusing 88, 127
Maximum burst 61, 62
Memory card → Card
Menu
  Menu settings 193
  My Menu 185
  Setting operation 40
MENU icon 4

Downloaded from ManualsCamera.com Manuals

Metering mode 100, 189
Evaluative / Partial / Spot / Center-weighted average
MF (Manual focusing) 88
Mirror lockup 106, 180
Mode Dial → Shooting mode
Monochrome image 66, 68
Multi-controller 36, 86
My Menu 185

N

Neutral 66
Night Portrait 55
Noise reduction 176
Nomenclature 16
Number → File number

O

One-Shot AF 84
Original decision (image verification) data 184

P

P (Program AE) 92
Paper settings (printing) 156
Partial metering 100
PC terminal 16, 114
Peripheral illumination correction 76
Personal computer
Image transfer 167
Wallpaper 169
Personal white balance 73
PictBridge 153
Picture Style
Adjustment 67
Selection 65
User defined 69
Pixel count selection 60
Playback → Image
Portrait 51, 55, 65
Possible shots 28, 61, 119
Power
Auto power off 27, 44
Battery check 28
Household power 190
Possible shots 28, 119
Recharge 24
Switch 27
Printing 153
Page layout 157
Paper settings 156
PictBridge 153
Print Order (DPOF) 163
<⎙> button 159, 168
Printing effects 160
Tilt correction 161
Trimming 161
Program AE 92
Program shift 93
Protect (image erase-protection) .. 143

Q

Quick Control screen 38

R

RAW 60, 62
RAW+JPEG 60
Recharge 24
Red-eye reduction 108
Remote control shooting 105

Downloaded from ManualsCamera.com Manuals

Revert to default settings 45
Review time 145
Rotate (image) 138, 146, 161

S

Safety shift 175
Safety warnings 212
Saturation.....67, 160
Self-timer.....90
Sensor cleaning 147
Sepia (Monochrome) 68
Sharpness.....67
Shoot w/o card 29
Shooting information display.....133
Shooting mode.....20
A-DEP.....99
Aperture-priority AE 96
Close-up 53
Creative Auto.....57
Flash off.....56
Full Auto 48
Landscape 52
Manual exposure 98
Night Portrait.....55
Portrait 51
Program AE 92
Shutter-priority AE 94
Sports 54
Shooting settings display 189
Shutter button 35
Shutter-priority AE.....94
Silent shooting 128
Slide show.....139
Sports.....54
Spot metering.....100
sRAW (Small RAW)..... 60, 62
Strap..... 23
System map 202

T

Toning effect (Monochrome)..... 68
Sepia / Blue / Purple / Green
Transfer order (image) 170
Trimming (printing) 161
Tv (Shutter-priority AE)..... 94

U

Ultra DMA (UDMA)..... 29, 61

V

Viewfinder..... 19
Dioptric adjustment 34
Viewing on TV 141
Video system
(NTSC/PAL) 141, 194

W

WB → White balance
White balance..... 71, 189
Bracketing 75
Correction 74
Custom..... 72
Personal..... 73

Z

Zoom ring lock..... 32

Downloaded from ManualsCamera.com Manuals

Canon

CANON INC. 30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo 146-8501, Japan

U.S.A. — **CANON U.S.A. INC.**
One Canon Plaza, Lake Success, NY 11042-1198, U.S.A.
For all inquires concerning this product, call toll free in the U.S.
1-800-OK-CANON

CANADA — **CANON CANADA INC. HEADQUARTERS**
6390 Dixie Road, Mississauga, Ontario L5T 1P7, Canada
CANON CANADA INC. MONTREAL BRANCH
5990, Côte-de-Liesse, Montréal Québec H4T 1V7, Canada
CANON CANADA INC. CALGARY OFFICE
2828, 16th Street, N.E. Calgary, Alberta T2E 7K7, Canada
For all inquiries concerning this product, call toll free in Canada
1-800-OK-CANON

EUROPE, AFRICA & MIDDLE EAST — **CANON EUROPA N.V.**
Bovenkerkerweg 59-61, 1185 XB Amstelveen, The Netherlands
CANON FRANCE S.A.S.
17,Quai du Président Paul Doumer, 92414 Courbevoie Cedex, France
CANON UK LTD.
Woodhatch Reigate,Surrey RH2 8BF, United Kingdom
CANON DEUTSCHLAND GmbH
Europark Fichtenhain A10, 47807 Krefeld, Germany
CANON ITALIA S.p.A.
Via Milano 8, 20097 San Donato Milanese, (MI), Italy
CANON Schweiz A.G.
Industriestrasse 12, 8305 Dietlikon, Switzerland
Canon GmbH
Zetschegasse 11, A-1230 Vienna, Austria
CANON España,S.A.
Av. De Europa,6 Alcobendas 28108 Madrid, Spain
CANON Portugal S.A.
Rua Alfredo da Silva,14 Alfragide 2610-016 Amadora, Portugal

CENTRAL & SOUTH AMERICA — **CANON LATIN AMERICA, INC.**
703 Waterford Way, Suite 400 Miami, FL 33126,U.S.A.

ASIA — **CANON (China) Co., LTD.**
15F Jinbao Building No.89 Jinbao Street, Dongcheng District, Beijing 100005, China
CANON HONGKONG CO., LTD.
19/F., The Metropolis Tower, 10 Metropolis Drive, Hunghom, Kowloon, Hong Kong
CANON SINGAPORE PTE. LTD.
1 HarbourFront Avenue, #04-01 Keppel Bay Tower, Singapore 098632
CANON KOREA CONSUMER IMAGING INC.
Gangnam Finance Center 17F, 737,Yeoksam-Dong, Gangnam-Gu, Seoul, 135-984, Korea

OCEANIA — **CANON AUSTRALIA PTY. LTD.**
1 Thomas Holt Drive, North Ryde, Sydney N.S.W. 2113, Australia
CANON NEW ZEALAND LTD.
Akoranga Business Park, Akoranga Drive, Northcote, Auckland, New Zealand

JAPAN — **CANON MARKETING JAPAN INC.**
16-6, Kohnan 2-chome, Minato-ku, Tokyo 108-8011, Japan

This Instruction Manual booklet is current as of August 2008. For information on the camera's compatibility with any accessories and lenses introduced after this date, contact any Canon Service Center.

CT1-1026-000 © CANON INC. 2008 PRINTED IN JAPAN

Downloaded from ManualsCamera.com Manuals